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Tidal Current Tables 1991

Atlantic Coast of North America

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service

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Tidal Current Tables 1991

Atlantic Coast of North America

Issued 1990

U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
National Oceanic and Atmospheric Administration
John A. Knauss, Under Secretary
National Ocean Service
Virginia K. Tippie, Assistant Administrator

Tide Tables, Tidal Current Tables, Tidal Current Charts, United States Coast Pilots, Distance Tables, and Nautical Charts may be ordered from the NOAA, Distribution Branch, 6501 Lafayette Ave., Riverdale, MD 20737, (301) 436-6990. A list of authorized sales agents is published in the Nautical Chart Catalogs or may be obtained on request from the National Ocean Service. The publications may also be purchased across-the-counter at the NOAA, Distribution Branch office at 6501 Lafayette Ave., Riverdale, MD.

Technical questions relating to tide and current predictions, as well as requests for special predictions, should be addressed to the National Ocean Service, Estuarine and Ocean Physics Branch, 6001 Executive Blvd., Rockville, MD 20852, (301) 443-8060. Technical questions relating to other publications and nautical charts should be addressed to the National Ocean Service, Mapping and Charting Branch, 6001 Executive Blvd., Rockville, MD 20852, (301) 443-8157.

Corrections to this publication, after the date of printing, may appear in the quarterly summaries numbered 13, 26, 39, and 52 of the Notice to Mariners. They may also appear in the Local Notice to Mariners, published weekly, by the various United States Coast Guard Districts.

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IMPORTANT NOTICE

Daylight saving time is not used in this publication. All daily tidal current predictions and predictions compiled by the use of Table 2 data are based on the standard time meridian indicated for each location. Predicted times may be converted to daylight saving times, where necessary, by adding 1 hour to these data. In converting times from the Astronomical Data page, it should be remembered that daylight saving time is based on a meridian 15° east of the normal standard meridian for a particular place.

INTRODUCTION

Current tables for the use of mariners have been published by the National Ocean Service (formerly the Coast and Geodetic Survey) since 1890. Tables for the Atlantic coast first appeared as a part of the tide tables and consisted of brief directions for obtaining the times of the current for a few locations from the times of high and low waters. Daily predictions of slack water for five stations were given for the year 1916, and by 1923 the tables had so expanded that they were then issued as a separate publication entitled Current Tables, Atlantic Coast. A companion volume, Current Tables, Pacific Coast, was also issued that year. In 1930 the predictions for the Atlantic coast were extended to include the times and velocities of maximum current.

In the preparation of these tables, all available observations were used. In some cases, however, the observations were insufficient for obtaining final results, and as further information becomes available it will be included in subsequent editions. All persons using these tables are invited to send information or suggestions for increasing their usefulness to the Assistant Administrator, National Ocean Service, Rockville, Md. 20852, U.S.A. The data for lightship stations are based on observations obtained through the cooperation of the U.S. Coast Guard. By cooperative arrangements, full predictions for Bay of Fundy Entrance (Grand Manan Channel) were furnished by the Canadian Hydrographic Service.

Daily predicted times of slack water and predicted times and velocities of maximum current (flood and ebb) are presented in table 1 for a number of reference stations. Similar predictions for many other locations may be obtained by applying the correction factors listed in table 2 to the predictions of the appropriate reference station. The speed of a current at times between slack water and maximum current may be approximated by the use of table 3. The duration of weak current near the time of slack water may be computed by the use of table 4.

LIST OF REFERENCE STATIONS

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Baltimore Harbor Approach (off Sandy Pt.), Md.	70
Bay of Fundy Entrance (Grand Manan Channel)	4
Boston Harbor (Deer Island Light), Mass.	16
Cape Cod Canal, Mass.	22
Charleston Harbor (off Ft. Sumter), SC	82
Chesapeake and Delaware Canal (Chesapeake City)	76
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Delaware Bay Entrance	58
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Hell Gate, East River, N.Y.	46
Key West, Fla.	106
Miami Harbor Entrance, Fla	100
Mobile Bay Entrance, Ala	118
Pollock Rip Channel	28
Portsmouth Harbor Entrance, N.H	10
St. Johns River Entrance, Fla.	94
Savannah River Entrance, Ga.	88
Tampa Bay Entrance, Fla.	112
The Narrows, New York Harbor, N.Y	52
The Race, Long Island Sound	34
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Vieques Passage, Puerto Rico	130

TABLE 1.—DAILY CURRENT PREDICTIONS

EXPLANATION OF TABLE

This table gives the predicted times of slack water and the predicted times and speeds of maximum current-flood and ebb-for each day of the year at a number of stations on the Atlantic coast of North America. The times are given in hours and minutes and the speeds in knots.

Time.—The kind of time used for the predictions at each reference station is indicated by the time meridian at the bottom of each page.

Slack water and maximum current.—The columns headed "Slack water" contain the predicted times at which there is no current; or, in other words, the times at which the current has stopped setting in a given direction and is about to begin to set in the opposite direction. Offshore, where the current is rotary, slack water denotes the time of minimum current. Beginning with the slack water before flood the current increases in speed until the strength or maximum speed of the flood current is reached; it then decreases until the following slack water or slack before ebb. The ebb current now begins, increases to a maximum speed, and then decreases to the next slack. The predicted times and speeds of maximum current are given in the columns headed "Maximum Current." Flood speeds are marked with an "F" the ebb speeds with an "E". An entry in the "Slack Water" column will be slack, flood begins if the maximum current which follows it is marked "F". Otherwise the entry will be slack, ebb begins.

Direction of set.—As the terms flood and ebb do not in all cases clearly indicate the direction of the current, the approximate direction toward which the currents flow are given at the top of each page to distinguish the two streams.

Number of slacks and strengths.—There are usually four slacks and four maximums each day. When a vacancy occurs in any day, the slack or maximum that seems to be missing will be found to occur soon after midnight as the first slack or maximum of the following day. At some stations where the diurnal inequality is large, there may be on certain days a continuous flood or ebb current with varying speed throughout half the day giving only two slacks and two maximums on that particular day.

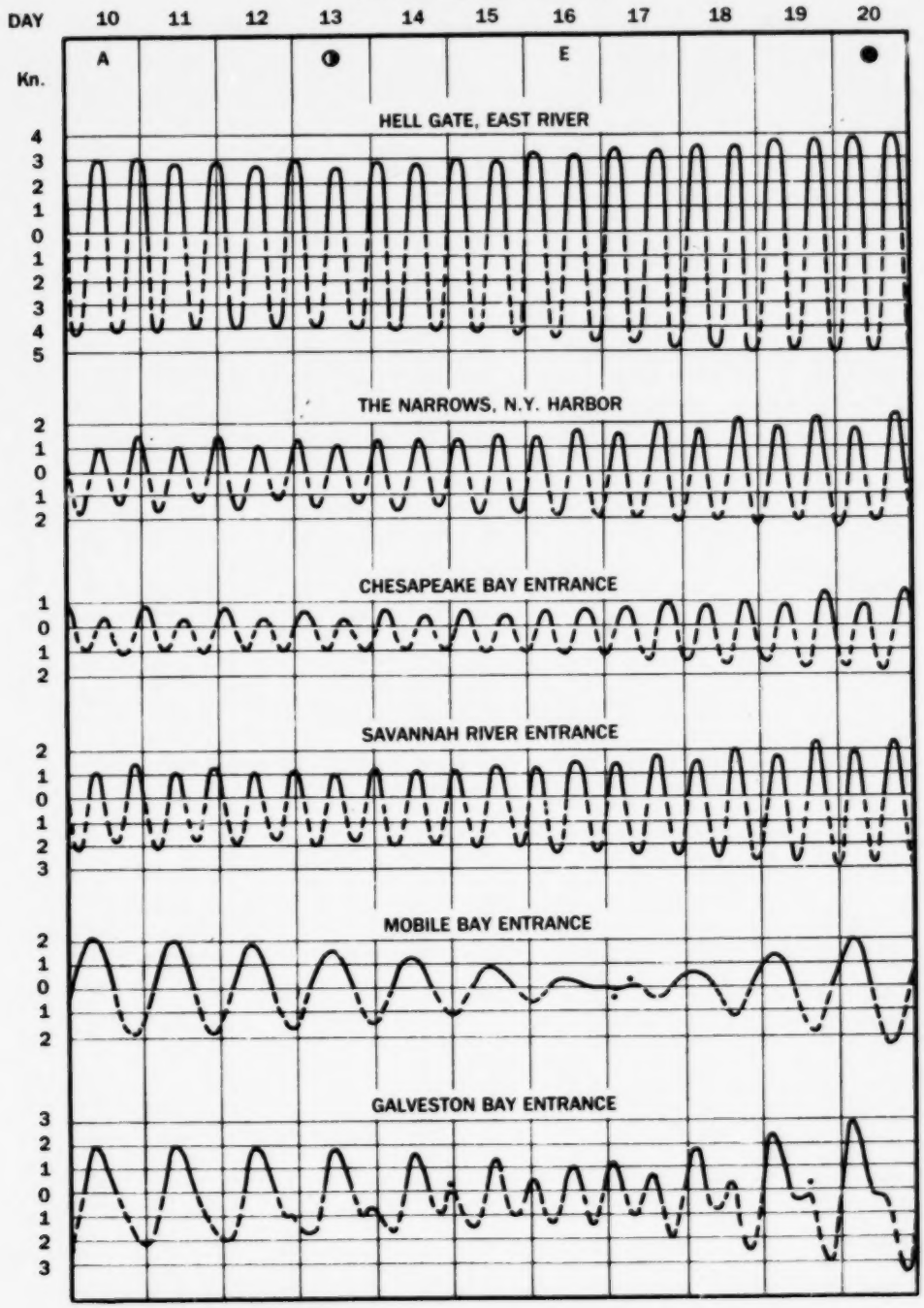
Current and tide.—It is important to notice that the predicted slacks and strengths given in this table refer to the horizontal motion of the water and not to the vertical rise and fall of the tide. The relation of current to tide is not constant, but varies from place to place, and the time of slack water does not generally coincide with the time of high or low water, nor does the time of maximum speed of the current usually coincide with the time of most rapid change in the vertical height of the tide. At stations located on a tidal river or bay the time of slack water may differ from 1 to 3 hours from the time of high or low water. The times of high and low waters are given in the tide tables published by the National Ocean Service.

Variations from predictions.—In using this table it should be borne in mind that actual times of slack or maximum occasionally differ from the predicted times by as much as half an hour and in rare instances the difference may be as much as an hour. Comparisons of predicted with observed times of slack water indicate that more than 90 percent of the slack waters occurred within half an hour of the predicted times. To make sure, therefore, of getting the full advantage of a favorable current or slack water, the navigator should reach the entrance or strait at least half an hour before the predicted time of the desired condition of current. Currents are frequently disturbed by wind or variations in river discharge. On days when the current is affected by such disturbing influences the times and speeds will differ from those given in the table, but local knowledge will enable one to make proper allowance for these effects.

Typical current curves.—The variations in the tidal current from day to day and from place to place are illustrated on the opposite page by the current curves for representative ports along the Atlantic and Gulf Coasts of the United States. Flood current is represented by the solid line curve above the zero speed (slack water) line and the ebb current by the broken line curve below the slack water line. The curves show clearly that the currents along the Atlantic coast are semi-daily (two floods and two ebbs in a day) in character with their principal variations following changes in the Moon's distance and phase. In the Gulf of Mexico, however the currents are daily in character. As the dominant factor is the change in the Moon's declination the currents in the Gulf tend to become semi-daily when the Moon is near the Equator. By reference to the curves it will be noted that with this daily type of current there are times when the current may be erratic (marked with an asterisk), or one flood or ebb current of the day may be quite weak. Therefore in using the predictions of the current it is essential to carefully note the speeds as well as the times.

TYPICAL CURRENT CURVES FOR REFERENCE STATIONS

(Flood: Solid line, Ebb: Broken Line.)



*Current weak and variable.

A discussion of these curves is given on the preceding page.

Lunar data: A—moon in apogee
◑—last quarter
E—moon on equator
●—new moon

BAY OF FUNDY ENTRANCE (Grand Manan Channel), 1991

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0005	0300	2.5E
	0555	0855	2.8F
	1205	1520	3.1E
	1825	2130	3.2F
2 W	0050	0350	2.7E
	0645	0945	3.0F
	1250	1610	3.2E
	1910	2215	3.3F
3 Th	0135	0440	2.8E
	0730	1030	3.0F
	1340	1655	3.1E
	1950	2255	3.3F
4 F	0220	0525	2.8E
	0820	1115	2.9F
	1425	1735	3.0E
	2035	2340	3.2F
5 Sa	0300	0605	2.7E
	0900	1155	2.7F
	1505	1820	2.7E
	2115		
6 Su		0020	3.0F
	0345	0650	2.5E
	0945	1240	2.5F
	1550	1905	2.4E
	2155		
7 M		0100	2.7F
	0425	0735	2.3E
	1035	1325	2.2F
	1640	1950	2.0E
	2240		
8 Tu		0140	2.3F
	0510	0820	2.0E
	1120	1410	1.8F
	1730	2040	1.6E
	2320		
9 W		0225	2.0F
	0555	0915	1.7E
	1215	1505	1.5F
	1830	2135	1.2E
10 Th	0010	0320	1.6F
	0650	1010	1.5E
	1315	1610	1.3F
	1945	2240	0.9E
11 F	0110	0420	1.4F
	0750	1115	1.4E
	1420	1720	1.2F
	2105	2350	0.9E
12 Sa	0220	0530	1.2F
	0855	1220	1.4E
	1525	1835	1.4F
	2215		
13 Su		0055	1.0E
	0330	0635	1.3F
	0955	1315	1.6E
	1620	1930	1.6F
	2305		
14 M		0150	1.2E
	0430	0735	1.5F
	1045	1405	1.8E
	1705	2015	1.9F
	2345		
15 Tu		0235	1.5E
	0520	0820	1.8F
	1125	1445	2.1E
	1745	2050	2.3F
16 W	0020	0315	1.8E
	0600	0900	2.1F
	1205	1525	2.3E
	1820	2130	2.6F
17 Th	0050	0350	2.2E
	0640	0940	2.4F
	1245	1600	2.6E
	1855	2200	2.9F
18 F	0120	0425	2.4E
	0720	1015	2.6F
	1320	1635	2.7E
	1935	2240	3.1F
19 Sa	0155	0500	2.7E
	0800	1055	2.8F
	1400	1710	2.8E
	2010	2315	3.3F
20 Su	0230	0540	2.8E
	0840	1135	2.9F
	1440	1750	2.8E
	2045	2350	3.3F
21 M	0305	0615	2.8E
	0920	1215	2.9F
	1520	1830	2.7E
	2125		
22 Tu		0035	3.2F
	0350	0700	2.8E
	1005	1300	2.7F
	1605	1915	2.4E
	2210		
23 W		0120	2.9F
	0435	0745	2.6E
	1055	1350	2.5F
	1700	2005	2.1E
	2300		
24 Th		0210	2.6F
	0525	0845	2.3E
	1150	1445	2.2F
	1805	2110	1.7E
	2355		
25 F		0305	2.2F
	0625	0950	2.1E
	1300	1555	2.0F
	1925	2225	1.5E
26 Sa	0110	0420	2.0F
	0740	1105	2.0E
	1415	1720	2.0F
	2050	2350	1.5E
27 Su	0230	0540	1.9F
	0900	1220	2.2E
	1525	1840	2.2F
	2205		
28 M		0105	1.8E
	0350	0700	2.1F
	1010	1325	2.5E
	1630	1945	2.6F
	2310		
29 Tu		0205	2.2E
	0455	0800	2.4F
	1110	1425	2.8E
	1725	2035	3.0F
	2355		
30 W		0255	2.6E
	0550	0850	2.7F
	1200	1510	3.0E
	1810	2120	3.3F
31 Th	0040	0345	2.9E
	0640	0935	3.0F
	1245	1555	3.2E
	1855	2200	3.5F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0120	0425	3.1E
	0720	1020	3.1F
	1325	1635	3.2E
	1930	2240	3.5F
2 Sa	0200	0505	3.2E
	0800	1055	3.1F
	1405	1715	3.1E
	2010	2315	3.4F
3 Su	0235	0540	3.0E
	0840	1135	3.0F
	1445	1750	2.8E
	2045	2350	3.2F
4 M	0305	0615	2.8E
	0915	1210	2.7F
	1520	1825	2.4E
	2120		
5 Tu		0020	2.8F
	0340	0655	2.5E
	0955	1245	2.3F
	1600	1905	2.0E
	2150		
6 W		0055	2.4F
	0415	0730	2.1E
	1035	1325	1.9F
	1640	1940	1.5E
	2225		
7 Th		0130	2.0F
	0450	0810	1.7E
	1120	1405	1.5F
	1730	2030	1.0E
	2305		
8 F		0215	1.5F
	0530	0905	1.3E
	1215	1505	1.2F
	1845	2140	0.6E
9 Sa	0000	0310	1.1F
	0635	1020	1.1E
	1325	1625	1.0F
	2040	2315	0.5E
10 Su	0130	0435	0.9F
	0805	1145	1.1E
	1445	1805	1.1F
	2205		
11 M		0040	0.7E
	0305	0615	0.9F
	0930	1255	1.3E
	1550	1915	1.5F
	2250		
12 Tu		0140	1.1E
	0415	0720	1.3F
	1025	1345	1.7E
	1640	1955	1.9F
	2325		
13 W		0220	1.6E
	0505	0805	1.8F
	1110	1425	2.1E
	1720	2035	2.4F
	2355		
14 Th		0255	2.1E
	0545	0845	2.2F
	1150	1505	2.5E
	1800	2105	2.8F
15 F	0025	0330	2.5E
	0625	0920	2.7F
	1225	1540	2.8E
	1835	2140	3.2F
16 Sa	0055	0405	2.9E
	0700	0955	3.0F
	1300	1610	3.0E
	1905	2215	3.5F
17 Su	0130	0435	3.2E
	0735	1030	3.3F
	1340	1645	3.1E
	1945	2250	3.7F
18 M	0200	0510	3.3E
	0815	1110	3.3F
	1415	1725	3.1E
	2020	2325	3.6F
19 Tu	0235	0550	3.3E
	0855	1150	3.3F
	1455	1800	2.9E
	2100		
20 W		0005	3.4F
	0315	0630	3.1E
	0935	1230	3.0F
	1540	1845	2.5E
	2140		
21 Th		0045	3.1F
	0400	0715	2.8E
	1025	1320	2.6F
	1630	1935	2.1E
	2230		
22 F		0135	2.6F
	0450	0810	2.3E
	1120	1415	2.2F
	1740	2040	1.6E
	2330		
23 Sa		0235	2.0F
	0550	0920	2.0E
	1230	1530	1.9F
	1905	2210	1.3E
24 Su	0050	0355	1.7F
	0715	1045	1.8E
	1350	1705	1.8F
	2045	2340	1.4E
25 M	0225	0530	1.6F
	0850	1210	2.0E
	1510	1830	2.1F
	2200		
26 Tu		0055	1.8E
	0345	0655	1.9F
	1000	1315	2.3E
	1615	1935	2.6F
	2255		
27 W	0155	0755	2.3E
	0450	1100	2.4F
	1410	1710	2.7E
	2020	2340	3.0F
28 Th	0245	0840	2.8E
	0540	1145	2.8F
	1455	1750	3.0E
	2105		3.3F

Time meridian 60° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0020	0325	3.1E
	0620	0920	3.1F
	1230	1535	3.2E
	1830	2140	3.5F
2 Sa	0055	0400	3.3E
	0700	1000	3.2F
	1305	1615	3.2E
	1905	2210	3.5F
3 Su	0130	0435	3.3E
	0735	1030	3.2F
	1340	1645	3.0E
	1940	2245	3.4F
4 M	0200	0510	3.2E
	0810	1105	3.0F
	1415	1720	2.7E
	2010	2315	3.2F
5 Tu	0230	0540	2.9E
	0845	1135	2.8F
	1450	1750	2.3E
	2040	2345	2.8F
6 W	0255	0610	2.5E
	0915	1210	2.4F
	1520	1820	1.9E
	2110		
7 Th		0015	2.4F
	0325	0640	2.1E
	0950	1240	2.0F
	1555	1855	1.4E
	2140		
8 F		0045	1.9F
	0355	0715	1.7E
	1030	1320	1.6F
	1640	1935	0.9E
	2215		
9 Sa		0125	1.4F
	0430	0805	1.3E
	1120	1415	1.2F
	1755	2045	0.5E
	2310		
10 Su		0220	1.0F
	0530	0925	0.9E
	1235	1535	0.9F
	2005	2245	0.4E
11 M	0055	0350	0.7F
	0715	1110	0.9E
	1405	1730	1.1F
	2135		
12 Tu		0015	0.7E
	0245	0550	0.9F
	0900	1225	1.3E
	1520	1845	1.5F
	2220		
13 W		0110	1.3E
	0355	0655	1.4F
	1005	1320	1.7E
	1610	1925	2.0F
	2250		
14 Th		0150	1.8E
	0440	0740	1.9F
	1050	1400	2.2E
	1650	2005	2.6F
	2325		
15 F		0225	2.4E
	0520	0820	2.4F
	1125	1435	2.6E
	1730	2035	3.1F
	2355		
16 Sa		0300	2.9E
	0600	0855	2.9F
	1200	1510	2.9E
	1805	2110	3.5F
17 Su	0025	0335	3.3E
	0635	0930	3.3F
	1240	1545	3.2E
	1840	2145	3.7F
18 M	0055	0410	3.5E
	0710	1010	3.5F
	1315	1620	3.2E
	1915	2220	3.8F
19 Tu	0130	0445	3.6E
	0750	1045	3.5F
	1355	1655	3.1E
	1955	2300	3.7F
20 W	0210	0520	3.5E
	0830	1125	3.4F
	1435	1735	2.9E
	2035	2335	3.4F
21 Th	0245	0600	3.2E
	0910	1210	3.1F
	1520	1820	2.4E
	2115		
22 F		0020	3.0F
	0330	0650	2.7E
	1000	1255	2.7F
	1615	1915	2.0E
	2210		
23 Sa		0110	2.4F
	0420	0745	2.3E
	1055	1355	2.2F
	1725	2025	1.5E
	2315		
24 Su		0215	1.9F
	0530	0905	1.9E
	1210	1515	1.8F
	1900	2200	1.3E
25 M	0040	0345	1.5F
	0705	1035	1.7E
	1335	1650	1.8F
	2035	2330	1.5E
26 Tu	0220	0525	1.6F
	0840	1155	1.9E
	1450	1815	2.2F
	2140		
27 W		0040	1.9E
	0335	0640	2.0F
	0950	1255	2.3E
	1555	1910	2.6F
	2235		
28 Th		0135	2.4E
	0430	0735	2.4F
	1045	1350	2.6E
	1640	1955	3.0F
	2315		
29 F		0220	2.8E
	0515	0820	2.8F
	1125	1430	2.9E
	1725	2035	3.3F
	2350		
30 Sa		0255	3.1E
	0555	0855	3.0F
	1205	1510	3.0E
	1800	2110	3.4F
31 Su	0025	0335	3.3E
	0635	0930	3.1F
	1240	1545	2.9E
	1835	2140	3.3F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M	0055	0405	3.2E
	0705	1005	3.1F
	1315	1620	2.8E
	1910	2210	3.2F
2 Tu	0125	0435	3.0E
	0740	1035	2.9F
	1345	1650	2.5E
	1940	2240	3.0F
3 W	0150	0505	2.8E
	0810	1105	2.7F
	1420	1720	2.1E
	2005	2310	2.6F
4 Th	0220	0535	2.4E
	0845	1135	2.4F
	1450	1750	1.7E
	2035	2340	2.3F
5 F	0245	0605	2.1E
	0915	1210	2.0F
	1525	1820	1.3E
	2110		
6 Sa		0015	1.9F
	0320	0640	1.7E
	0955	1250	1.7F
	1615	1905	0.9E
	2150		
7 Su		0055	1.4F
	0400	0730	1.3E
	1045	1345	1.3F
	1725	2020	0.6E
	2255		
8 M		0155	1.0F
	0500	0850	1.0E
	1155	1500	1.1F
	1910	2210	0.6E
9 Tu	0035	0325	0.8F
	0645	1030	1.0E
	1320	1635	1.3F
	2035	2330	1.0E
10 W	0210	0510	1.0F
	0825	1145	1.3E
	1430	1750	1.7F
	2125		
11 Th		0030	1.5E
	0320	0620	1.5F
	0925	1240	1.7E
	1525	1845	2.2F
	2205		
12 F		0110	2.0E
	0405	0705	2.1F
	1015	1320	2.2E
	1610	1925	2.7F
	2240		
13 Sa		0150	2.6E
	0450	0750	2.6F
	1055	1400	2.6E
	1655	2005	3.1F
	2315		
14 Su		0230	3.0E
	0530	0825	3.0F
	1135	1440	2.9E
	1735	2040	3.5F
	2350		
15 M		0305	3.4E
	0605	0905	3.4F
	1215	1520	3.1E
	1810	2120	3.7F
16 Tu	0030	0340	3.6E
	0645	0945	3.5F
	1255	1555	3.1E
	1850	2155	3.7F
17 W	0105	0420	3.6E
	0725	1025	3.5F
	1335	1640	3.0E
	1930	2235	3.5F
18 Th	0145	0500	3.4E
	0805	1105	3.4F
	1420	1720	2.7E
	2015	2320	3.2F
19 F	0225	0545	3.1E
	0855	1150	3.0F
	1510	1810	2.3E
	2105		
20 Sa		0005	2.8F
	0315	0635	2.7E
	0945	1245	2.7F
	1605	1910	1.9E
	2200		
21 Su		0100	2.3F
	0410	0735	2.2E
	1040	1345	2.2F
	1720	2020	1.6E
	2310		
22 M		0205	1.8F
	0520	0850	1.9E
	1150	1500	2.0F
	1845	2145	1.5E
23 Tu	0035	0330	1.5F
	0650	1010	1.8E
	1305	1625	2.0F
	2005	2305	1.7E
24 W	0155	0500	1.6F
	0815	1125	1.9E
	1420	1740	2.2F
	2110		
25 Th		0010	2.0E
	0305	0615	2.0F
	0925	1225	2.1E
	1520	1840	2.5F
	2200		
26 F		0100	2.4E
	0400	0705	2.3F
	1015	1320	2.4E
	1610	1925	2.7F
	2240		
27 Sa		0145	2.7E
	0450	0750	2.6F
	1100	1400	2.5E
	1650	2005	2.9F
	2320		
28 Su		0225	2.9E
	0530	0830	2.8F
	1140	1440	2.6E
	1730	2040	3.0F
	2350		
29 M		0305	3.0E
	0605	0905	2.8F
	1220	1515	2.5E
	1805	2110	2.9F
30 Tu	0025	0335	2.9E
	0640	0935	2.8F
	1250	1550	2.4E
	1840	2140	2.8F

Time meridian 60° W. 0000 is midnight. 1200 is noon.

BAY OF FUNDY ENTRANCE (Grand Manan Channel), 1991

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0055	0410	2.8E	16	0045	0405	3.4E
W	0710	1010	2.7F	Th	0710	1010	3.4F
	1325	1625	2.2E		1325	1625	2.8E
	1910	2210	2.6F		1920	2220	3.3F
2	0120	0440	2.6E	17	0130	0445	3.3E
Th	0745	1040	2.5F	F	0755	1055	3.3F
	1400	1655	1.9E		1415	1715	2.6E
	1945	2245	2.4F		2010	2310	3.0F
3	0150	0510	2.3E	18	0215	0535	3.0E
F	0815	1115	2.3F	Sa	0840	1140	3.1F
	1430	1730	1.6E		1505	1805	2.4E
	2020	2320	2.1F		2100	2355	2.7F
4	0220	0545	2.0E	19	0305	0625	2.7E
Sa	0855	1150	2.1F	Su	0930	1235	2.8F
	1510	1810	1.4E		1600	1905	2.1E
	2055	2355	1.8F		2155		
5	0300	0625	1.8E	20		0050	2.3F
Su	0935	1235	1.9F	M	0405	0725	2.3E
	1600	1900	1.2E		1025	1330	2.5F
	2145				1705	2010	1.9E
					2300		
6		0045	1.5F	21		0155	2.0F
M	0345	0715	1.5E	Tu	0510	0830	2.0E
	1025	1325	1.7F		1125	1435	2.2F
	1700	2005	1.0E		1810	2115	1.8E
	2250						
7		0145	1.3F	22	0010	0305	1.8F
Tu	0450	0825	1.3E	W	0625	0940	1.8E
	1125	1430	1.6F		1230	1545	2.1F
	1815	2125	1.1E		1920	2225	1.9E
8	0005	0300	1.2F	23	0120	0420	1.7F
W	0610	0940	1.3E	Th	0740	1045	1.8E
	1230	1545	1.6F		1335	1650	2.1F
	1925	2235	1.3E		2020	2325	2.0E
9	0125	0420	1.4F	24	0230	0530	1.8F
Th	0735	1050	1.5E	F	0850	1150	1.8E
	1340	1655	1.9F		1435	1755	2.2F
	2025	2335	1.7E		2115		
10	0230	0530	1.7F	25		0025	2.2E
F	0840	1150	1.8E	Sa	0325	0630	2.0F
	1440	1755	2.3F		0945	1245	1.9E
	2115				1530	1845	2.3F
					2200		
11		0025	2.2E	26		0110	2.3E
Sa	0325	0625	2.1F	Su	0415	0720	2.2F
	0940	1245	2.1E		1035	1330	2.0E
	1530	1845	2.6F		1620	1930	2.4F
	2200				2245		
12		0110	2.6E	27		0155	2.5E
Su	0415	0715	2.6F	M	0500	0800	2.3F
	1025	1330	2.4E		1120	1415	2.0E
	1620	1930	3.0F		1700	2010	2.4F
	2240				2320		
13		0155	3.0E	28		0235	2.5E
M	0500	0800	3.0F	Tu	0540	0840	2.4F
	1110	1415	2.7E		1200	1455	2.0E
	1705	2010	3.2F		1740	2045	2.4F
	2325				2355		
14		0235	3.3E	29		0310	2.5E
Tu	0540	0845	3.2F	W	0615	0915	2.5F
	1155	1500	2.8E		1235	1530	2.0E
	1750	2055	3.4F		1815	2120	2.4F
15	0005	0320	3.4E	30	0030	0345	2.5E
W	0625	0925	3.4F	Th	0650	0950	2.5F
	1240	1540	2.9E		1310	1610	1.9E
	1835	2140	3.4F		1855	2155	2.3F
				31	0100	0420	2.4E
				F	0725	1025	2.5F
					1345	1645	1.8E
					1930	2230	2.2F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0135	0455	2.3E	16	0210	0530	3.1E
Sa	0800	1100	2.4F	Su	0830	1135	3.2F
	1420	1720	1.8E		1455	1800	2.7E
	2010	2305	2.2F		2055	2350	2.8F
2	0210	0530	2.2E	17	0300	0615	2.8E
Su	0835	1135	2.4F	M	0915	1220	3.0F
	1500	1800	1.7E		1545	1850	2.5E
	2050	2350	2.0F		2145		
3	0250	0610	2.0E	18		0040	2.5F
M	0915	1220	2.3F	Tu	0350	0705	2.5E
	1540	1845	1.6E		1005	1310	2.8F
	2140				1635	1945	2.3E
					2240		
4		0035	1.9F	19		0130	2.3F
Tu	0335	0700	1.9E	W	0445	0800	2.2E
	1000	1305	2.2F		1055	1400	2.5F
	1630	1940	1.6E		1730	2040	2.1E
	2235				2335		
5		0125	1.8F	20		0230	2.0F
W	0430	0750	1.7E	Th	0545	0855	1.9E
	1050	1355	2.1F		1145	1455	2.2F
	1725	2035	1.6E		1825	2135	1.9E
	2335						
6		0225	1.7F	21	0035	0330	1.7F
Th	0535	0855	1.6E	F	0655	1000	1.6E
	1145	1455	2.1F		1245	1555	1.9F
	1825	2140	1.8E		1925	2240	1.8E
7	0035	0330	1.7F	22	0140	0440	1.6F
F	0645	1000	1.6E	Sa	0805	1105	1.4E
	1245	1600	2.1F		1345	1655	1.8F
	1925	2240	1.9E		2025	2340	1.8E
8	0140	0440	1.9F	23	0240	0545	1.6F
Sa	0755	1105	1.7E	Su	0915	1205	1.4E
	1350	1700	2.2F		1445	1800	1.7F
	2025	2340	2.2E		2120		
9	0245	0545	2.1F	24		0035	1.9E
Su	0900	1205	1.9E	M	0340	0645	1.7F
	1450	1800	2.4F		1015	1305	1.4E
	2120				1545	1855	1.7F
					2210		
10		0035	2.5E	25		0125	2.0E
M	0340	0645	2.4F	Tu	0430	0740	1.9F
	1000	1300	2.1E		1105	1355	1.5E
	1550	1900	2.7F		1635	1945	1.8F
	2210				2255		
11		0130	2.8E	26		0215	2.1E
Tu	0435	0735	2.8F	W	0515	0820	2.0F
	1055	1355	2.4E		1150	1440	1.6E
	1645	1950	2.9F		1725	2025	1.9F
	2300				2335		
12		0220	3.0E	27		0255	2.2E
W	0525	0825	3.0F	Th	0555	0900	2.2F
	1145	1445	2.6E		1225	1520	1.8E
	1735	2040	3.0F		1805	2105	2.1F
	2350						
13		0305	3.2E	28	0010	0330	2.3E
Th	0610	0915	3.2F	F	0630	0935	2.4F
	1235	1535	2.7E		1300	1600	1.9E
	1825	2130	3.1F		1845	2140	2.2F
14	0035	0355	3.2E	29	0045	0405	2.4E
F	0655	1000	3.3F	Sa	0705	1010	2.6F
	1320	1625	2.8E		1330	1635	2.0E
	1915	2215	3.1F		1920	2220	2.3F
15	0125	0440	3.2E	30	0125	0440	2.4E
Sa	0745	1045	3.3F	Su	0740	1045	2.7F
	1410	1710	2.8E		1405	1710	2.2E
	2005	2305	3.0F		2000	2255	2.4F

Time meridian 60° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M	0200	0515	2.4E
	0815	1120	2.8F
	1440	1745	2.2E
	2040	2335	2.4F
2 Tu	0240	0555	2.4E
	0850	1155	2.8F
	1515	1825	2.3E
	2120		
3 W		0015	2.4F
	0320	0635	2.3E
	0930	1240	2.8F
	1555	1905	2.3E
	2205		
4 Th		0100	2.3F
	0405	0720	2.1E
	1015	1325	2.7F
	1640	1955	2.2E
	2255		
5 F		0150	2.2F
	0500	0810	1.9E
	1105	1415	2.5F
	1730	2050	2.1E
	2355		
6 Sa		0250	2.1F
	0600	0910	1.7E
	1200	1510	2.3F
	1830	2150	2.1E
7 Su	0055	0355	2.0F
	0715	1020	1.6E
	1305	1615	2.1F
	1935	2300	2.1E
8 M	0205	0505	2.0F
	0830	1130	1.6E
	1415	1725	2.1F
	2045		
9 Tu		0005	2.3E
	0310	0620	2.2F
	0945	1240	1.8E
	1530	1835	2.3F
	2150		
10 W		0110	2.5E
	0415	0725	2.5F
	1045	1345	2.1E
	1635	1940	2.5F
	2250		
11 Th		0205	2.8E
	0510	0820	2.9F
	1140	1440	2.5E
	1730	2035	2.8F
	2340		
12 F		0300	3.0E
	0600	0910	3.2F
	1230	1530	2.8E
	1825	2125	3.0F
13 Sa	0030	0345	3.2E
	0645	0955	3.4F
	1315	1615	3.0E
	1910	2210	3.1F
14 Su	0115	0430	3.3E
	0730	1035	3.5F
	1355	1700	3.1E
	1955	2255	3.1F
15 M	0200	0515	3.2E
	0810	1115	3.5F
	1435	1745	3.0E
	2040	2335	3.0F
16 Tu	0245	0555	3.0E
	0855	1155	3.3F
	1520	1825	2.9E
	2125		
17 W		0020	2.8F
	0330	0640	2.7E
	0935	1235	3.0F
	1600	1910	2.6E
	2210		
18 Th		0100	2.5F
	0415	0725	2.3E
	1015	1320	2.6F
	1640	1955	2.3E
	2255		
19 F		0145	2.1F
	0505	0810	1.8E
	1100	1400	2.2F
	1725	2045	1.9E
	2345		
20 Sa		0235	1.7F
	0600	0905	1.4E
	1145	1450	1.8F
	1820	2145	1.6E
21 Su	0045	0340	1.4F
	0715	1010	1.0E
	1245	1550	1.4F
	1920	2250	1.4E
22 M	0155	0455	1.2F
	0845	1130	0.9E
	1400	1705	1.2F
	2035		
23 Tu		0000	1.4E
	0305	0620	1.3F
	1005	1245	0.9E
	1515	1825	1.2F
	2145		
24 W		0105	1.5E
	0405	0725	1.5F
	1100	1345	1.2E
	1620	1930	1.4F
	2235		
25 Th		0155	1.7E
	0455	0810	1.9F
	1140	1430	1.5E
	1715	2015	1.7F
	2320		
26 F		0240	2.0E
	0535	0845	2.2F
	1215	1510	1.8E
	1755	2055	2.0F
	2355		
27 Sa		0315	2.3E
	0610	0920	2.5F
	1240	1540	2.1E
	1830	2130	2.3F
28 Su	0035	0350	2.5E
	0645	0950	2.8F
	1310	1615	2.4E
	1905	2205	2.6F
29 M	0105	0420	2.7E
	0715	1020	3.1F
	1340	1645	2.7E
	1940	2235	2.8F
30 Tu	0140	0455	2.8E
	0750	1055	3.2F
	1410	1720	2.8E
	2020	2315	2.9F
31 W	0220	0530	2.8E
	0825	1130	3.3F
	1445	1755	2.9E
	2055	2350	2.9F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Th	0255	0605	2.7E
	0900	1210	3.2F
	1520	1835	2.8E
	2140		
2 F		0035	2.8F
	0340	0645	2.4E
	0940	1250	3.0F
	1600	1915	2.6E
	2225		
3 Sa		0120	2.6F
	0430	0730	2.1E
	1030	1335	2.7F
	1650	2005	2.4E
	2315		
4 Su		0210	2.3F
	0525	0830	1.8E
	1120	1430	2.3F
	1745	2110	2.1E
5 M	0020	0315	2.0F
	0640	0945	1.5E
	1230	1540	1.9F
	1855	2225	1.9E
6 Tu	0135	0440	1.9F
	0815	1110	1.4E
	1355	1700	1.8F
	2020	2345	2.0E
7 W	0250	0605	2.0F
	0935	1235	1.7E
	1520	1825	2.0F
	2140		
8 Th		0100	2.3E
	0400	0715	2.4F
	1040	1340	2.1E
	1630	1935	2.3F
	2240		
9 F		0200	2.7E
	0500	0810	2.9F
	1135	1435	2.6E
	1725	2030	2.7F
	2335		
10 Sa		0250	3.0E
	0545	0855	3.3F
	1215	1520	3.0E
	1815	2115	3.0F
11 Su	0020	0335	3.3E
	0630	0940	3.6F
	1255	1600	3.3E
	1900	2155	3.3F
12 M	0105	0415	3.3E
	0710	1015	3.7F
	1335	1640	3.4E
	1940	2235	3.3F
13 Tu	0145	0455	3.3E
	0750	1055	3.6F
	1410	1720	3.3E
	2020	2315	3.2F
14 W	0225	0530	3.0E
	0825	1130	3.4F
	1445	1755	3.1E
	2055	2350	3.0F
15 Th	0300	0610	2.7E
	0900	1205	3.1F
	1520	1830	2.8E
	2135		
16 F		0025	2.6F
	0340	0645	2.2E
	0935	1235	2.6F
	1555	1910	2.3E
	2215		
17 Sa		0105	2.2F
	0420	0725	1.7E
	1010	1315	2.1F
	1630	1950	1.9E
	2300		
18 Su		0150	1.7F
	0510	0810	1.1E
	1050	1355	1.6F
	1715	2045	1.4E
	2355		
19 M		0240	1.3F
	0625	0920	0.7E
	1145	1450	1.1F
	1810	2200	1.1E
20 Tu	0105	0400	1.0F
	0825	1100	0.5E
	1310	1615	0.8F
	1945	2330	1.0E
21 W	0230	0555	1.0F
	0955	1230	0.7E
	1455	1805	0.9F
	2120		
22 Th		0045	1.3E
	0340	0705	1.4F
	1045	1330	1.1E
	1610	1915	1.2F
	2220		
23 F		0135	1.6E
	0430	0750	1.8F
	1120	1410	1.5E
	1700	2000	1.6F
	2305		
24 Sa		0215	2.0E
	0510	0820	2.3F
	1145	1445	2.0E
	1735	2035	2.1F
	2340		
25 Su		0250	2.3E
	0545	0855	2.7F
	1215	1515	2.4E
	1810	2105	2.5F
26 M	0010	0325	2.6E
	0615	0925	3.1F
	1240	1545	2.8E
	1845	2140	2.9F
27 Tu	0045	0355	2.9E
	0650	0955	3.4F
	1310	1620	3.1E
	1915	2215	3.2F
28 W	0120	0425	3.0E
	0720	1025	3.6F
	1340	1650	3.3E
	1950	2250	3.3F
29 Th	0155	0500	3.0E
	0755	1100	3.6F
	1415	1725	3.3E
	2030	2325	3.3F
30 F	0230	0535	2.9E
	0835	1140	3.5F
	1450	1800	3.1E
	2110		
31 Sa		0005	3.1F
	0315	0615	2.6E
	0915	1220	3.1F
	1530	1845	2.8E
	2155		

Time meridian 60° W. 0000 is midnight. 1200 is noon.

BAY OF FUNDY ENTRANCE (Grand Manan Channel), 1991

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0050	2.8F
Su	0400	0705	2.2E
	1000	1305	2.7F
	1615	1935	2.4E
	2245		
2		0145	2.3F
M	0500	0805	1.7E
	1055	1400	2.2F
	1715	2040	2.0E
	2350		
3		0250	2.0F
Tu	0625	0925	1.4E
	1210	1515	1.7F
	1835	2205	1.8E
4	0110	0420	1.8F
W	0805	1100	1.4E
	1345	1650	1.6F
	2010	2335	1.9E
5	0235	0555	2.0F
Th	0925	1225	1.7E
	1515	1820	1.9F
	2130		
6		0045	2.2E
F	0345	0705	2.5F
	1025	1325	2.2E
	1620	1925	2.3F
	2230		
7		0145	2.7E
Sa	0440	0755	3.0F
	1115	1415	2.8E
	1715	2015	2.8F
	2320		
8		0230	3.0E
Su	0525	0840	3.4F
	1155	1500	3.2E
	1800	2100	3.1F
9	0005	0315	3.2E
M	0605	0915	3.6F
	1235	1540	3.4E
	1840	2135	3.3F
10	0045	0350	3.3E
Tu	0645	0950	3.7F
	1305	1615	3.5E
	1915	2210	3.3F
11	0125	0430	3.2E
W	0720	1025	3.6F
	1340	1650	3.4E
	1950	2245	3.2F
12	0200	0500	2.9E
Th	0755	1055	3.3F
	1410	1725	3.1E
	2025	2320	3.0F
13	0235	0535	2.5E
F	0825	1130	3.0F
	1440	1755	2.7E
	2100	2355	2.6F
14	0310	0610	2.0E
Sa	0900	1200	2.5F
	1510	1830	2.3E
	2135		
15		0030	2.2F
Su	0345	0645	1.5E
	0930	1235	2.0F
	1545	1905	1.8E
	2220		
16		0110	1.7F
M	0430	0725	1.0E
	1010	1310	1.5F
	1620	1955	1.3E
	2305		
17		0200	1.3F
Tu	0540	0835	0.6E
	1100	1405	1.0F
	1715	2110	1.0E
18	0015	0315	1.0F
W	0750	1025	0.4E
	1240	1530	0.7F
	1900	2255	0.9E
19	0145	0510	1.0F
Th	0920	1200	0.7E
	1430	1730	0.8F
	2050		
20		0010	1.1E
F	0300	0625	1.4F
	1005	1255	1.2E
	1540	1845	1.2F
	2150		
21		0100	1.5E
Sa	0350	0710	1.9F
	1040	1335	1.7E
	1625	1930	1.7F
	2235		
22		0140	2.0E
Su	0430	0745	2.4F
	1105	1410	2.2E
	1705	2005	2.2F
	2310		
23		0220	2.4E
M	0510	0820	2.8F
	1135	1445	2.7E
	1740	2040	2.7F
	2345		
24		0250	2.7E
Tu	0545	0850	3.2F
	1205	1515	3.1E
	1815	2110	3.1F
25	0020	0325	3.0E
W	0620	0925	3.5F
	1235	1545	3.3E
	1850	2145	3.4F
26	0055	0400	3.1E
Th	0655	1000	3.7F
	1310	1620	3.5E
	1925	2225	3.5F
27	0130	0435	3.0E
F	0730	1035	3.6F
	1345	1700	3.4E
	2005	2300	3.4F
28	0210	0515	2.9E
Sa	0310	1115	3.4F
	1420	1735	3.2E
	2045	2345	3.2F
29	0255	0555	2.5E
Su	0850	1155	3.1F
	1505	1820	2.9E
	2135		
30		0030	2.8F
M	0345	0645	2.1E
	0940	1245	2.6F
	1555	1915	2.4E
	2225		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0125	2.4F
Tu	0450	0755	1.7E
	1045	1345	2.0F
	1655	2025	2.0E
	2335		
2		0235	2.0F
W	0615	0920	1.4E
	1205	1505	1.6F
	1820	2150	1.8E
3	0055	0405	1.9F
Th	0750	1050	1.5E
	1345	1640	1.6F
	1955	2315	1.9E
4	0210	0530	2.1F
F	0905	1205	1.9E
	1500	1805	1.9F
	2115		
5		0025	2.2E
Sa	0320	0640	2.5F
	1000	1300	2.4E
	1600	1905	2.3F
	2215		
6		0120	2.6E
Su	0415	0730	2.9F
	1045	1350	2.8E
	1650	1955	2.7F
	2300		
7		0205	2.8E
M	0500	0810	3.2F
	1125	1435	3.2E
	1735	2035	3.0F
	2345		
8		0245	3.0E
Tu	0540	0850	3.4F
	1205	1510	3.3E
	1810	2110	3.2F
9	0025	0325	3.0E
W	0615	0925	3.4F
	1235	1545	3.3E
	1850	2145	3.2F
10	0100	0400	2.8E
Th	0650	0955	3.3F
	1310	1620	3.2E
	1925	2220	3.0F
11	0135	0435	2.6E
F	0725	1025	3.0F
	1340	1655	2.9E
	2000	2255	2.8F
12	0210	0510	2.2E
Sa	0800	1100	2.7F
	1410	1725	2.6E
	2030	2325	2.5F
13	0245	0545	1.8E
Su	0830	1130	2.3F
	1440	1800	2.2E
	2105		
14		0000	2.1F
M	0320	0620	1.4E
	0905	1205	1.9F
	1510	1835	1.7E
	2145		
15		0040	1.8F
Tu	0405	0705	1.0E
	0945	1245	1.5F
	1550	1920	1.3E
	2235		
16		0130	1.4F
W	0510	0810	0.7E
	1045	1340	1.1F
	1645	2035	1.0E
	2335		
17		0240	1.2F
Th	0645	0945	0.7E
	1215	1500	0.9F
	1820	2205	1.0E
18	0055	0405	1.2F
F	0810	1105	0.9E
	1345	1640	0.9F
	2000	2320	1.2E
19	0205	0525	1.5F
Sa	0905	1205	1.3E
	1455	1755	1.3F
	2105		
20		0015	1.5E
Su	0300	0620	1.9F
	0945	1250	1.8E
	1545	1845	1.8F
	2155		
21		0100	1.9E
M	0350	0700	2.4F
	1020	1330	2.3E
	1630	1925	2.3F
	2235		
22		0140	2.3E
Tu	0430	0740	2.8F
	1055	1405	2.8E
	1705	2005	2.8F
	2315		
23		0220	2.6E
W	0510	0820	3.2F
	1130	1445	3.1E
	1745	2045	3.1F
	2355		
24		0255	2.8E
Th	0550	0855	3.4F
	1205	1520	3.4E
	1825	2125	3.4F
25	0035	0335	3.0E
F	0630	0935	3.5F
	1245	1600	3.5E
	1905	2205	3.4F
26	0115	0415	2.9E
Sa	0710	1015	3.5F
	1320	1640	3.4E
	1945	2245	3.4F
27	0200	0500	2.8E
Su	0755	1055	3.3F
	1405	1720	3.2E
	2030	2330	3.2F
28	0245	0545	2.5E
M	0840	1145	2.9F
	1450	1810	2.8E
	2120		
29		0020	2.8F
Tu	0340	0640	2.1E
	0935	1235	2.5F
	1545	1905	2.4E
	2215		
30		0115	2.5F
W	0445	0750	1.8E
	1040	1335	2.1F
	1650	2015	2.1E
	2315		
31		0220	2.2F
Th	0600	0905	1.7E
	1155	1450	1.8F
	1810	2130	1.9E

Time meridian 60° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 032° True E-Ebb, Dir. 212° True.

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0030	0340	2.1F	16	0000	0310	1.6F
F	0720	1020	1.8E	Sa	0650	1005	1.3E
	1315	1615	1.7F		1255	1545	1.3F
	1935	2245	1.9E		1900	2220	1.3E
2	0140	0455	2.2F	17	0105	0420	1.8F
Sa	0825	1130	2.0E	Su	0755	1105	1.5E
	1430	1735	1.9F		1400	1655	1.5F
	2045	2350	2.1E		2010	2320	1.5E
3	0245	0600	2.4F	18	0205	0520	2.0F
Su	0925	1230	2.4E	M	0845	1200	1.9E
	1530	1835	2.3F		1455	1755	1.9F
	2145				2110		
4		0050	2.3E	19		0015	1.8E
M	0340	0655	2.7F	Tu	0300	0615	2.3F
	1010	1320	2.7E		0930	1245	2.3E
	1620	1925	2.5F		1550	1850	2.3F
	2235				2200		
5		0135	2.5E	20		0105	2.1E
Tu	0425	0740	2.9F	W	0350	0700	2.7F
	1055	1405	2.9E		1015	1330	2.7E
	1705	2010	2.8F		1635	1935	2.7F
	2320				2250		
6		0220	2.6E	21		0150	2.4E
W	0510	0820	3.0F	Th	0440	0750	3.0F
	1130	1445	3.0E		1100	1415	3.0E
	1745	2045	2.8F		1720	2020	3.0F
					2335		
7	0000	0300	2.5E	22		0235	2.6E
Th	0550	0855	2.9F	F	0525	0830	3.2F
	1210	1520	3.0E		1140	1500	3.2E
	1825	2125	2.8F		1805	2105	3.2F
8	0040	0340	2.4E	23	0020	0320	2.7E
F	0625	0930	2.8F	Sa	0615	0915	3.3F
	1240	1555	2.8E		1225	1540	3.3E
	1900	2200	2.8F		1845	2150	3.3F
9	0115	0415	2.2E	24	0105	0405	2.8E
Sa	0700	1005	2.6F	Su	0700	1000	3.2F
	1315	1630	2.6E		1310	1625	3.3E
	1935	2230	2.6F		1930	2235	3.3F
10	0150	0450	2.0E	25	0150	0455	2.7E
Su	0735	1035	2.4F	M	0745	1050	3.1F
	1345	1705	2.4E		1355	1715	3.1E
	2010	2305	2.4F		2020	2320	3.2F
11	0230	0525	1.7E	26	0240	0545	2.6E
M	0815	1110	2.1F	Tu	0840	1135	2.9F
	1415	1740	2.1E		1445	1805	2.9E
	2045	2345	2.2F		2105		
12	0305	0605	1.5E	27		0010	3.0F
Tu	0855	1150	1.9F	W	0335	0640	2.4E
	1455	1820	1.8E		0930	1230	2.6F
	2125				1540	1900	2.6E
					2200		
13		0025	2.0F	28		0100	2.8F
W	0350	0650	1.3E	Th	0430	0735	2.2E
	0940	1235	1.6F		1030	1325	2.3F
	1535	1905	1.5E		1640	1955	2.3E
	2210				2255		
14		0110	1.8F	29		0200	2.5F
Th	0445	0750	1.1E	F	0530	0840	2.1E
	1035	1325	1.4F		1135	1430	2.0F
	1630	2000	1.3E		1745	2100	2.0E
	2300				2355		
15		0205	1.6F	30		0305	2.3F
F	0545	0855	1.1E	Sa	0635	0945	2.0E
	1140	1430	1.3F		1240	1540	1.9F
	1740	2110	1.3E		1900	2210	1.9E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0055	0410	2.2F	16	0010	0320	2.0F
Su	0740	1050	2.1E	M	0645	1005	1.8E
	1350	1650	1.9F		1305	1600	1.7F
	2010	2315	1.9E		1920	2225	1.5E
2	0200	0515	2.2F	17	0110	0425	2.0F
M	0840	1150	2.2E	Tu	0745	1105	2.0E
	1450	1755	2.0F		1410	1710	1.9F
	2115				2030	2330	1.6E
3		0015	1.9E	18	0215	0530	2.2F
Tu	0300	0615	2.2F	W	0845	1205	2.2E
	0935	1245	2.3E		1510	1815	2.2F
	1550	1855	2.2F		2135		
	2210						
4		0110	2.0E	19		0035	1.9E
W	0355	0705	2.3F	Th	0320	0630	2.4F
	1020	1335	2.5E		0945	1300	2.5E
	1635	1945	2.3F		1605	1910	2.5F
	2300				2230		
5		0155	2.0E	20		0130	2.1E
Th	0445	0750	2.3F	F	0420	0725	2.6F
	1105	1420	2.5E		1035	1355	2.8E
	1720	2025	2.4F		1700	2005	2.8F
	2345				2325		
6		0240	2.0E	21		0225	2.4E
F	0530	0830	2.4F	Sa	0515	0820	2.8F
	1145	1500	2.5E		1125	1445	3.0E
	1800	2105	2.5F		1750	2055	3.1F
7	0030	0325	2.0E	22	0010	0315	2.6E
Sa	0610	0910	2.3F	Su	0605	0905	3.0F
	1220	1540	2.5E		1215	1535	3.2E
	1840	2140	2.5F		1835	2140	3.3F
8	0105	0405	2.0E	23	0100	0400	2.8E
Su	0650	0945	2.3F	M	0655	0955	3.1F
	1255	1615	2.4E		1305	1620	3.3E
	1915	2215	2.5F		1920	2225	3.4F
9	0140	0440	1.9E	24	0145	0450	2.9E
M	0725	1020	2.2F	Tu	0745	1040	3.1F
	1330	1650	2.3E		1350	1705	3.2E
	1950	2250	2.5F		2005	2310	3.4F
10	0215	0515	1.9E	25	0230	0535	2.9E
Tu	0805	1100	2.2F	W	0830	1130	3.0F
	1405	1725	2.2E		1435	1750	3.0E
	2025	2325	2.4F		2050	2355	3.3F
11	0250	0555	1.8E	26	0315	0625	2.8E
W	0845	1135	2.1F	Th	0920	1215	2.8F
	1440	1800	2.0E		1525	1840	2.8E
	2100				2135		
12		0005	2.4F	27		0040	3.1F
Th	0325	0635	1.8E	F	0405	0715	2.6E
	0925	1220	2.0F		1010	1305	2.6F
	1520	1840	1.9E		1615	1930	2.5E
	2140				2225		
13		0045	2.3F	28		0130	2.8F
F	0410	0720	1.7E	Sa	0455	0805	2.4E
	1015	1305	1.9F		1105	1355	2.3F
	1610	1930	1.8E		1715	2025	2.1E
	2225				2315		
14		0130	2.2F	29		0220	2.5F
Sa	0455	0810	1.7E	Su	0550	0900	2.2E
	1105	1355	1.8F		1200	1455	2.0F
	1705	2020	1.6E		1815	2125	1.8E
	2315						
15		0225	2.1F	30	0010	0315	2.1F
Su	0550	0905	1.7E	M	0645	1005	2.0E
	1205	1455	1.7F		1305	1600	1.7F
	1810	2120	1.5E		1930	2230	1.5E
				31	0110	0420	1.9F
				Tu	0750	1105	1.9E
					1410	1715	1.6F
					2045	2335	1.4E

Time meridian 60° W. 0000 is midnight. 1200 is noon.

PORTSMOUTH HARBOR ENTRANCE (off Wood I.), N.H., 1991

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0026	0310	2.1E
Tu	0646	0902	1.7F
	1242	1542	2.5E
	1932	2140	1.5F
2	0120	0403	2.1E
W	0739	0955	1.7F
	1333	1631	2.5E
	2022	2231	1.6F
3	0213	0454	2.1E
Th	0833	1045	1.6F
	1424	1722	2.5E
	2112	2322	1.5F
4	0305	0548	2.0E
F	0927	1134	1.5F
	1514	1812	2.4E
	2203		
5		0010	1.5F
Sa	0357	0639	1.9E
	1022	1225	1.3F
	1605	1900	2.2E
	2253		
6		0057	1.3F
Su	0450	0730	1.8E
	1119	1314	1.1F
	1657	1949	2.0E
	2345		
7		0148	1.2F
M	0543	0824	1.7E
	1218	1405	0.9F
	1751	2040	1.8E
8	0037	0235	1.1F
Tu	0636	0920	1.6E
	1318	1459	0.7F
	1848	2133	1.6E
9	0131	0326	1.0F
W	0730	1018	1.5E
	1419	1552	0.6F
	1946	2229	1.4E
10	0224	0417	0.9F
Th	0823	1132	1.5E
	1518	†1800	0.5F
	2044	2322	1.3E
11	0316	0509	0.9F
F	0915	1237	1.6E
	1613	†1839	0.5F
	2140		
12		0018	1.3E
Sa	0407	0600	0.9F
	1004	1328	1.6E
	1703	2052	0.6F
	2233		
13		0109	1.3E
Su	0455	0649	0.9F
	1050	1357	1.7E
	1748	2139	0.7F
	2321		
14		0157	1.4E
M	0540	0736	1.0F
	1133	1432	1.8E
	1830	2012	0.8F
15	0006	0239	1.4E
Tu	0624	0821	1.1F
	1213	1507	1.9E
	1909	2057	0.9F
16	0047	0321	1.5E
W	0706	0906	1.1F
	1250	1546	1.9E
	1947	2138	1.0F
17	0126	0401	1.6E
Th	0747	0948	1.2F
	1325	1625	2.0E
	2025	2219	1.1F
18	0202	0444	1.7E
F	0828	1031	1.3F
	1356	1706	2.0E
	2102	2300	1.2F
19	0237	0527	1.7E
Sa	0910	1116	1.3F
	1424	1747	2.0E
	2139	2346	1.3F
20	0311	0612	1.8E
Su	0954	1203	1.3F
	1454	1832	2.0E
	2218		
21		0029	1.4F
M	0347	0658	1.8E
	1042	1248	1.2F
	1530	1919	1.9E
	2301		
22		0116	1.4F
Tu	0430	0747	1.8E
	1136	1339	1.1F
	1616	2006	1.9E
	2349		
23		0207	1.4F
W	0523	0840	1.8E
	1234	1433	1.1F
	1713	2100	1.8E
24	0043	0302	1.4F
Th	0625	0935	1.8E
	1337	1528	1.0F
	1831	2157	1.7E
25	0142	0357	1.3F
F	0733	1036	1.9E
	1440	1629	1.0F
	1957	2256	1.7E
26	0244	0455	1.3F
Sa	0840	1136	1.9E
	1541	1730	1.0F
	2112	2359	1.7E
27	0345	0554	1.4F
Su	0943	1239	2.1E
	1639	1833	1.1F
	2218		
28		0059	1.8E
M	0443	0655	1.5F
	1041	1340	2.2E
	1733	1935	1.2F
	2317		
29		0200	1.9E
Tu	0540	0751	1.5F
	1136	1436	2.4E
	1824	2032	1.4F
30	0012	0257	2.0E
W	0633	0848	1.6F
	1228	1527	2.4E
	1914	2123	1.5F
31	0104	0349	2.1E
Th	0725	0939	1.6F
	1318	1615	2.5E
	2001	2214	1.5F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0153	0438	2.1E
F	0816	1026	1.6F
	1405	1701	2.4E
	2048	2258	1.5F
2	0241	0525	2.1E
Sa	0906	1113	1.5F
	1452	1747	2.3E
	2134	2343	1.5F
3	0328	0613	2.0E
Su	0957	1159	1.3F
	1539	1831	2.1E
	2221		
4		0024	1.4F
M	0416	0657	1.9E
	1050	1244	1.1F
	1626	1917	1.9E
	2309		
5		0111	1.2F
Tu	0504	0746	1.7E
	1145	1333	0.9F
	1716	2001	1.7E
	2359		
6		0156	1.1F
W	0554	0838	1.6E
	1243	1420	0.8F
	1810	2053	1.5E
7	0052	0244	0.9F
Th	0647	0929	1.5E
	1342	1513	0.6F
	1908	2144	1.3E
8	0147	0335	0.8F
F	0741	1028	1.5E
	1442	†1747	0.5F
	2009	2241	1.2E
9	0243	0428	0.8F
Sa	0836	1129	1.5E
	1539	†1826	0.5F
	2108	2339	1.2E
10	0337	0523	0.8F
Su	0929	1227	1.5E
	1630	†1911	0.6F
	2203		
11		0037	1.3E
M	0428	0617	0.8F
	1018	1318	1.6E
	1716	†2009	0.7F
	2252		
12		0127	1.4E
Tu	0516	0706	0.9F
	1104	1400	1.7E
	1758	1944	0.8F
	2337		
13		0214	1.5E
W	0600	0757	1.0F
	1146	1439	1.9E
	1837	2028	1.0F
14	0018	0255	1.6E
Th	0642	0842	1.2F
	1225	1517	2.0E
	1915	2110	1.1F
15	0056	0336	1.8E
F	0723	0927	1.3F
	1301	1558	2.0E
	1951	2153	1.3F
16	0132	0419	1.9E
Sa	0804	1010	1.3F
	1334	1639	2.1E
	2028	2236	1.4F
17	0206	0501	1.9E
Su	0846	1053	1.4F
	1406	1720	2.1E
	2105	2317	1.5F
18	0240	0546	2.0E
M	0930	1138	1.4F
	1440	1805	2.1E
	2146		
19		0002	1.5F
Tu	0318	0631	2.0E
	1017	1226	1.3F
	1518	1851	2.0E
	2230		
20		0051	1.5F
W	0402	0722	2.0E
	1111	1317	1.2F
	1606	1942	1.9E
	2321		
21		0142	1.4F
Th	0455	0815	1.9E
	1210	1410	1.1F
	1708	2037	1.8E
22	0019	0234	1.4F
F	0600	0913	1.9E
	1314	1507	1.0F
	1829	2136	1.7E
23	0123	0331	1.3F
Sa	0712	1014	1.9E
	1419	1607	1.0F
	1950	2238	1.6E
24	0229	0434	1.2F
Su	0822	1116	1.9E
	1522	1712	1.0F
	2102	2345	1.7E
25	0333	0535	1.2F
M	0927	1224	2.0E
	1620	1817	1.1F
	2206		
26		0050	1.8E
Tu	0432	0639	1.3F
	1026	1327	2.1E
	1714	1922	1.2F
	2303		
27		0154	1.9E
W	0528	0738	1.4F
	1121	1422	2.2E
	1804	2021	1.3F
	2355		
28		0248	2.0E
Th	0620	0834	1.4F
	1212	1511	2.3E
	1852	2107	1.4F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0044	0336	2.1E
	0710	0922	1.4F
	1259	1556	2.3E
	1937	2150	1.5F
2 Sa	0130	0420	2.1E
	0758	1006	1.4F
	1345	1637	2.2E
	2021	2231	1.5F
3 Su	0214	0501	2.1E
	0845	1049	1.3F
	1429	1718	2.1E
	2104	2310	1.4F
4 M	0256	0543	2.0E
	0933	1130	1.2F
	1512	1759	1.9E
	2148	2351	1.3F
5 Tu	0339	0625	1.9E
	1021	1213	1.1F
	1556	1842	1.8E
	2234		
6 W		0035	1.2F
	0422	0710	1.8E
	1113	1300	0.9F
	1642	1929	1.6E
	2322		
7 Th		0120	1.1F
	0508	0759	1.6E
	1207	1345	0.8F
	1733	2017	1.4E
8 F	0014	0207	0.9F
	0559	0850	1.5E
	1305	1436	0.7F
	1831	2109	1.3E
9 Sa	0111	0258	0.8F
	0655	0943	1.5E
	1403	1532	0.6F
	1934	2205	1.2E
10 Su	0209	0351	0.8F
	0753	1041	1.4E
	1500	†1812	0.6F
	2034	2304	1.2E
11 M	0306	0447	0.7F
	0850	1139	1.5E
	1551	†1903	0.6F
	2129		
12 Tu		0001	1.3E
	0359	0544	0.8F
	0942	1233	1.6E
	1638	1821	0.8F
	2219		
13 W		0056	1.4E
	0448	0637	0.9F
	1030	1320	1.7E
	1720	1911	0.9F
	2303		
14 Th		0143	1.6E
	0533	0728	1.0F
	1114	1403	1.8E
	1800	1956	1.1F
	2344		
15 F		0226	1.8E
	0616	0815	1.2F
	1155	1448	2.0E
	1838	2039	1.3F
16 Sa	0023	0311	1.9E
	0658	0900	1.3F
	1233	1530	2.1E
	1916	2124	1.5F
17 Su	0059	0353	2.1E
	0740	0944	1.4F
	1310	1611	2.1E
	1954	2207	1.6F
18 M	0136	0436	2.2E
	0823	1029	1.5F
	1348	1654	2.1E
	2034	2252	1.6F
19 Tu	0213	0521	2.2E
	0908	1116	1.5F
	1428	1743	2.1E
	2118	2338	1.6F
20 W	0255	0608	2.2E
	0957	1205	1.4F
	1515	1828	2.0E
	2206		
21 Th		0027	1.6F
	0342	0700	2.1E
	1052	1256	1.3F
	1610	1921	1.9E
	2301		
22 F		0118	1.5F
	0438	0755	2.0E
	1152	1350	1.2F
	1717	2018	1.7E
23 Sa	0003	0213	1.3F
	0545	0852	1.9E
	1255	1449	1.1F
	1831	2118	1.6E
24 Su	0110	0312	1.2F
	0656	0954	1.9E
	1359	1550	1.0F
	1944	2225	1.6E
25 M	0217	0414	1.1F
	0806	1100	1.9E
	1501	1656	1.0F
	2050	2333	1.6E
26 Tu	0321	0519	1.1F
	0910	1208	1.9E
	1559	1805	1.1F
	2150		
27 W		0043	1.8E
	0420	0625	1.1F
	1009	1314	2.0E
	1651	1912	1.2F
	2245		
28 Th		0146	1.9E
	0515	0728	1.2F
	1103	1406	2.1E
	1740	2007	1.3F
	2334		
29 F		0239	2.0E
	0605	0820	1.2F
	1152	1451	2.1E
	1826	2043	1.3F
30 Sa	0020	0320	2.1E
	0653	0904	1.2F
	1239	1530	2.0E
	1910	2122	1.4F
31 Su	0103	0357	2.1E
	0739	0942	1.2F
	1323	1609	2.0E
	1952	2157	1.4F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M	0144	0434	2.1E
	0824	1022	1.2F
	1405	1647	1.9E
	2034	2238	1.3F
2 Tu	0224	0515	2.0E
	0909	1101	1.1F
	1447	1730	1.8E
	2116	2317	1.3F
3 W	0302	0554	1.9E
	0955	1144	1.0F
	1528	1811	1.7E
	2200		
4 Th		0002	1.2F
	0341	0639	1.8E
	1043	1228	0.9F
	1612	1854	1.5E
	2247		
5 F		0047	1.1F
	0422	0724	1.7E
	1134	1317	0.8F
	1702	1944	1.4E
	2339		
6 Sa		0134	0.9F
	0508	0815	1.6E
	1228	1406	0.7F
	1758	2037	1.3E
7 Su	0036	0225	0.8F
	0603	0906	1.5E
	1323	1459	0.7F
	1858	2132	1.2E
8 M	0135	0319	0.8F
	0703	1000	1.5E
	1417	1554	0.7F
	1956	2229	1.3E
9 Tu	0233	0414	0.8F
	0804	1057	1.5E
	1507	1650	0.8F
	2051	2327	1.4E
10 W	0327	0511	0.8F
	0859	1150	1.6E
	1554	1741	0.9F
	2140		
11 Th		0018	1.5E
	0417	0604	0.9F
	0950	1240	1.7E
	1637	1834	1.1F
	2225		
12 F		0109	1.7E
	0503	0656	1.1F
	1037	1327	1.8E
	1719	1923	1.3F
	2307		
13 Sa		0154	1.9E
	0548	0745	1.2F
	1121	1413	2.0E
	1759	2008	1.5F
	2348		
14 Su		0241	2.1E
	0632	0834	1.3F
	1204	1459	2.1E
	1840	2055	1.6F
15 M	0028	0326	2.2E
	0716	0921	1.4F
	1247	1544	2.1E
	1922	2141	1.7F
16 Tu	0108	0412	2.3E
	0801	1008	1.5F
	1332	1631	2.1E
	2007	2228	1.7F
17 W	0151	0459	2.4E
	0849	1057	1.5F
	1420	1720	2.1E
	2055	2315	1.7F
18 Th	0238	0550	2.3E
	0941	1147	1.5F
	1514	1809	2.0E
	2148		
19 F		0006	1.6F
	0330	0641	2.3E
	1036	1240	1.4F
	1613	1903	1.9E
	2247		
20 Sa		0059	1.5F
	0428	0736	2.1E
	1135	1335	1.3F
	1718	2002	1.7E
	2350		
21 Su		0155	1.3F
	0533	0834	2.0E
	1236	1433	1.2F
	1826	2105	1.7E
22 M	0057	0254	1.1F
	0640	0935	1.9E
	1337	1534	1.1F
	1931	2212	1.6E
23 Tu	0203	0357	1.0F
	0747	1043	1.9E
	1437	1641	1.1F
	2033	2325	1.7E
24 W	0306	0503	1.0F
	0849	1151	1.9E
	1533	1749	1.1F
	2130		
25 Th		0040	1.8E
	0405	0614	1.0F
	0947	1252	1.9E
	1625	2003	1.2F
	2222		
26 F		0140	1.9E
	0459	0831	1.0F
	1040	1343	1.9E
	1714	1941	1.2F
	2310		
27 Sa		0223	1.9E
	0549	0809	1.0F
	1130	1426	1.8E
	1759	2013	1.2F
	2354		
28 Su		0300	2.0E
	0636	0840	1.0F
	1216	1504	1.8E
	1842	2048	1.2F
29 M	0036	0333	2.0E
	0720	0916	1.0F
	1300	1542	1.7E
	1923	2126	1.2F
30 Tu	0116	0409	2.0E
	0804	0954	1.0F
	1342	1618	1.7E
	2004	2207	1.2F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

PORTSMOUTH HARBOR ENTRANCE (off Wood I.), N.H., 1991

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 W	0153	0446	2.0E
	0847	1037	1.0F
	1423	1659	1.6E
	2046	2248	1.2F
2 Th	0229	0527	1.9E
	0931	1118	1.0F
	1505	1743	1.5E
	2130	2331	1.1F
3 F	0305	0609	1.8E
	1016	1203	0.9F
	1548	1828	1.4E
	2217		
4 Sa		0016	1.0F
	0340	0655	1.8E
	1103	1248	0.9F
	1634	1915	1.3E
	2308		
5 Su		0104	1.0F
	0418	0741	1.7E
	1152	1337	0.9F
	1725	2006	1.3E
6 M	0002	0153	0.9F
	0504	0830	1.6E
	1242	1426	0.9F
	1820	2059	1.3E
7 Tu	0059	0246	0.8F
	0602	0923	1.6E
	1332	1520	0.9F
	1915	2154	1.4E
8 W	0156	0341	0.8F
	0706	1016	1.6E
	1420	1613	1.0F
	2007	2250	1.5E
9 Th	0251	0434	0.8F
	0807	1108	1.6E
	1507	1706	1.1F
	2057	2341	1.6E
10 F	0343	0530	0.9F
	0903	1201	1.7E
	1553	1757	1.2F
	2144		
11 Sa		0035	1.8E
	0432	0623	1.1F
	0956	1250	1.8E
	1638	1849	1.4F
	2230		
12 Su		0123	2.0E
	0519	0714	1.2F
	1047	1341	1.9E
	1723	1938	1.6F
	2315		
13 M		0213	2.2E
	0606	0807	1.3F
	1137	1430	2.0E
	1808	2025	1.7F
14 Tu	0000	0300	2.3E
	0654	0857	1.4F
	1227	1521	2.1E
	1855	2116	1.8F
15 W	0046	0351	2.4E
	0742	0948	1.5F
	1319	1609	2.1E
	1945	2205	1.8F
16 Th	0134	0440	2.5E
	0833	1039	1.5F
	1412	1702	2.1E
	2037	2256	1.7F
17 F	0225	0531	2.5E
	0925	1130	1.5F
	1508	1755	2.0E
	2133	2348	1.6F
18 Sa	0319	0623	2.4E
	1019	1223	1.4F
	1607	1851	1.9E
	2233		
19 Su		0041	1.5F
	0416	0719	2.2E
	1116	1319	1.3F
	1708	1948	1.8E
	2335		
20 M		0138	1.3F
	0517	0817	2.1E
	1214	1417	1.3F
	1810	2049	1.7E
21 Tu	0039	0234	1.1F
	0620	0916	2.0E
	1312	1515	1.2F
	1911	2157	1.7E
22 W	0144	0336	1.0F
	0723	1018	1.9E
	1409	1616	1.1F
	2009	2308	1.7E
23 Th	0246	0440	0.9F
	0824	1121	1.8E
	1504	†1810	1.1F
	2104		
24 F		0026	1.8E
	0345	0558	0.8F
	0921	1223	1.7E
	1556	1941	1.1F
	2156		
25 Sa		0121	1.8E
	0440	0822	0.9F
	1015	1314	1.7E
	1645	1902	1.1F
	2243		
26 Su		0212	1.9E
	0530	0911	0.9F
	1106	1400	1.6E
	1730	1935	1.1F
	2328		
27 M		0245	1.9E
	0617	0953	0.8F
	1153	1435	1.6E
	1814	2016	1.1F
28 Tu	0009	0311	1.9E
	0701	0852	0.8F
	1238	1514	1.5E
	1856	2057	1.1F
29 W	0049	0344	1.9E
	0744	0931	0.9F
	1321	1552	1.5E
	1938	2138	1.1F
30 Th	0126	0420	1.9E
	0826	1010	0.9F
	1402	1633	1.5E
	2020	2220	1.1F
31 F	0202	0501	1.9E
	0907	1053	0.9F
	1443	1716	1.4E
	2104	2305	1.1F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Sa	0236	0542	1.9E
	0949	1138	1.0F
	1524	1801	1.4E
	2149	2350	1.1F
2 Su	0307	0625	1.8E
	1032	1222	1.0F
	1606	1848	1.4E
	2237		
3 M		0035	1.0F
	0338	0710	1.8E
	1116	1309	1.0F
	1650	1936	1.4E
	2329		
4 Tu		0126	1.0F
	0414	0759	1.7E
	1201	1358	1.0F
	1738	2027	1.4E
5 W	0023	0215	0.9F
	0459	0850	1.7E
	1247	1447	1.1F
	1828	2118	1.5E
6 Th	0118	0309	0.9F
	0556	0938	1.7E
	1334	1538	1.1F
	1920	2211	1.6E
7 F	0214	0400	0.9F
	0704	1031	1.7E
	1423	1629	1.2F
	2012	2306	1.7E
8 Sa	0308	0457	1.0F
	0813	1126	1.7E
	1512	1723	1.3F
	2104		
9 Su	0401	0000	1.9E
	0917	0552	1.0F
	1601	1219	1.8E
	2156	1816	1.5F
10 M	0453	0055	2.1E
	1017	0646	1.2F
	1652	1312	1.9E
	2247	1909	1.6F
11 Tu	0543	0146	2.2E
	1114	0741	1.3F
	1743	1406	2.0E
	2338	2000	1.7F
12 W	0634	0239	2.4E
	1210	0836	1.4F
	1834	1457	2.0E
		2054	1.8F
13 Th	0029	0331	2.5E
	0724	0929	1.5F
	1306	1552	2.1E
	1927	2145	1.8F
14 F	0120	0422	2.5E
	0815	1022	1.6F
	1401	1645	2.1E
	2022	2238	1.7F
15 Sa	0212	0515	2.5E
	0907	1114	1.6F
	1457	1739	2.1E
	2118	2331	1.6F
16 Su	0306	0606	2.4E
	1000	1207	1.5F
	1553	1834	2.0E
	2216		
17 M	0401	0022	1.5F
		0700	2.3E
	1053	1300	1.4F
	1650	1931	1.9E
	2316		
18 Tu	0457	0116	1.3F
		0755	2.1E
	1148	1355	1.3F
	1747	2027	1.8E
19 W	0017	0213	1.1F
	0556	0850	2.0E
	1243	1446	1.2F
	1844	2131	1.7E
20 Th	0119	0310	0.9F
	0655	0946	1.8E
	1339	1543	1.1F
	1940	2238	1.7E
21 F	0221	0405	0.8F
	0755	1045	1.6E
	1433	1639	1.0F
	2034	2355	1.7E
22 Sa	0321	†0557	0.7F
	0853	1145	1.5E
	1525	1732	1.0F
	2126		
23 Su		0057	1.7E
	0417	0806	0.7F
	0948	1242	1.5E
	1616	1821	1.0F
	2215		
24 M	0509	0154	1.7E
	1040	0857	0.7F
	1703	1326	1.4E
	2300	1905	1.0F
25 Tu	0557	0223	1.8E
	1129	0944	0.7F
	1749	1409	1.4E
	2343	1946	1.0F
26 W	0640	0250	1.8E
	1215	0857	0.7F
	1832	1448	1.4E
		2029	1.0F
27 Th	0024	0321	1.8E
	0722	0904	0.8F
	1258	1530	1.4E
	1915	2112	1.1F
28 F	0102	0357	1.9E
	0802	0946	0.9F
	1339	1610	1.5E
	1957	2155	1.1F
29 Sa	0138	0436	1.9E
	0841	1027	1.0F
	1419	1652	1.5E
	2039	2240	1.1F
30 Su	0211	0515	1.9E
	0919	1110	1.0F
	1457	1735	1.5E
	2123	2323	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

JULY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1	0241	0558	1.9E
M	0959	1153	1.1F
	1534	1820	1.5E
	2208		
2		0010	1.1F
Tu	0308	0641	1.9E
	1038	1240	1.2F
	1611	1907	1.6E
	2256		
3		0054	1.1F
W	0338	0727	1.8E
	1120	1325	1.2F
	1651	1955	1.6E
	2347		
4		0145	1.0F
Th	0418	0814	1.8E
	1204	1414	1.2F
	1737	2046	1.6E
5	0041	0236	1.0F
F	0508	0903	1.7E
	1252	1506	1.3F
	1831	2139	1.7E
6	0138	0329	1.0F
Sa	0612	0958	1.7E
	1343	1557	1.3F
	1929	2234	1.8E
7	0236	0426	1.0F
Su	0731	1053	1.7E
	1437	1652	1.4F
	2030	2331	1.9E
8	0333	0524	1.0F
M	0848	1149	1.8E
	1533	1749	1.4F
	2129		
9		0028	2.1E
Tu	0429	0621	1.1F
	0956	1246	1.8E
	1629	1845	1.5F
	2225		
10		0124	2.2E
W	0522	0720	1.3F
	1058	1345	1.9E
	1724	1940	1.6F
	2321		
11		0220	2.4E
Th	0615	0816	1.4F
	1156	1440	2.0E
	1818	2035	1.7F
12	0014	0314	2.5E
F	0706	0911	1.5F
	1252	1536	2.1E
	1912	2128	1.7F
13	0106	0405	2.5E
Sa	0756	1006	1.6F
	1346	1629	2.1E
	2006	2221	1.7F
14	0158	0456	2.5E
Su	0846	1055	1.6F
	1438	1722	2.1E
	2101	2311	1.6F
15	0249	0546	2.4E
M	0936	1146	1.6F
	1531	1815	2.1E
	2156		
16		0002	1.5F
Tu	0341	0637	2.3E
	1027	1235	1.5F
	1623	1907	2.0E
	2252		
17		0053	1.3F
W	0433	0728	2.1E
	1119	1324	1.4F
	1717	2001	1.9E
	2351		
18		0144	1.1F
Th	0528	0817	1.9E
	1212	1415	1.2F
	1811	2057	1.7E
19	0051	0235	0.9F
F	0625	0912	1.7E
	1306	1505	1.1F
	1906	2153	1.6E
20	0153	0332	0.7F
Sa	0724	1006	1.5E
	1401	1557	1.0F
	2000	2302	1.6E
21	0253	†0538	0.6F
Su	0823	1107	1.4E
	1455	1649	0.9F
	2053		
22		0024	1.6E
M	0351	0745	0.6F
	0920	1203	1.3E
	1548	†1903	0.8F
	2144		
23		0125	1.6E
Tu	0444	0836	0.7F
	1014	1256	1.3E
	1637	1830	0.9F
	2232		
24		0158	1.7E
W	0531	0922	0.7F
	1104	1345	1.3E
	1725	1921	0.9F
	2317		
25		0223	1.7E
Th	0614	†0853	0.7F
	1150	1426	1.4E
	1809	2006	1.0F
	2359		
26		0255	1.8E
F	0654	0842	0.8F
	1233	1506	1.5E
	1852	2047	1.1F
27	0038	0330	1.9E
Sa	0732	0921	0.9F
	1312	1548	1.5E
	1934	2132	1.1F
28	0114	0409	1.9E
Su	0809	1002	1.1F
	1349	1627	1.6E
	2015	2214	1.2F
29	0146	0448	2.0E
M	0846	1043	1.2F
	1424	1710	1.7E
	2056	2257	1.2F
30	0215	0530	2.0E
Tu	0923	1124	1.3F
	1457	1751	1.7E
	2139	2342	1.2F
31	0242	0613	1.9E
W	1001	1207	1.3F
	1530	1838	1.7E
	2224		

AUGUST

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0029	1.2F
Th	0312	0656	1.9E
	1041	1255	1.3F
	1606	1926	1.8E
	2314		
2		0116	1.1F
F	0350	0743	1.8E
	1125	1342	1.3F
	1651	2015	1.8E
3	0009	0209	1.1F
Sa	0440	0834	1.7E
	1216	1433	1.3F
	1748	2108	1.8E
4	0108	0303	1.0F
Su	0546	0928	1.7E
	1312	1528	1.3F
	1854	2207	1.8E
5	0209	0400	1.0F
M	0712	1027	1.7E
	1413	1623	1.3F
	2003	2305	1.9E
6	0310	0459	1.0F
Tu	0834	1128	1.7E
	1514	1723	1.4F
	2108		
7		0007	2.0E
W	0408	0600	1.1F
	0943	1229	1.8E
	1613	1824	1.4F
	2209		
8		0105	2.2E
Th	0503	0702	1.2F
	1045	1328	1.9E
	1710	1921	1.5F
	2306		
9		0203	2.3E
F	0555	0759	1.4F
	1142	1426	2.0E
	1805	2019	1.6F
	2359		
10		0258	2.4E
Sa	0645	0854	1.5F
	1235	1521	2.2E
	1858	2112	1.6F
11	0050	0348	2.5E
Su	0734	0946	1.6F
	1326	1611	2.2E
	1950	2203	1.6F
12	0140	0436	2.5E
M	0822	1033	1.6F
	1415	1702	2.2E
	2041	2250	1.6F
13	0229	0523	2.4E
Tu	0909	1118	1.6F
	1504	1750	2.1E
	2134	2339	1.4F
14	0317	0610	2.2E
W	0958	1207	1.5F
	1552	1839	2.0E
	2227		
15		0025	1.2F
Th	0407	0657	2.0E
	1047	1250	1.3F
	1642	1927	1.9E
	2322		
16		0113	1.0F
F	0458	0745	1.8E
	1138	1339	1.2F
	1733	2018	1.7E
17	0021	0203	0.8F
Sa	0553	0833	1.5E
	1232	1427	1.0F
	1827	2112	1.6E
18	0121	0256	0.7F
Su	0652	0927	1.4E
	1328	1518	0.9F
	1922	2210	1.5E
19	0221	†0518	0.6F
M	0752	1026	1.3E
	1425	1609	0.8F
	2018	2314	1.5E
20	0319	†0553	0.6F
Tu	0851	1124	1.2E
	1520	1706	0.8F
	2111		
21		0024	1.5E
W	0411	†0638	0.6F
	0946	1226	1.3E
	1612	1801	0.8F
	2201		
22		0109	1.6E
Th	0458	0855	0.7F
	1036	1318	1.3E
	1700	1853	0.9F
	2248		
23		0147	1.7E
F	0541	0728	0.8F
	1121	1400	1.5E
	1745	1938	1.0F
	2331		
24		0223	1.8E
Sa	0620	0811	0.9F
	1202	1442	1.6E
	1828	2023	1.1F
25	0010	0300	1.9E
Su	0658	0852	1.1F
	1240	1521	1.7E
	1909	2106	1.2F
26	0047	0339	1.9E
M	0734	0932	1.2F
	1316	1602	1.8E
	1949	2149	1.2F
27	0120	0418	2.0E
Tu	0810	1013	1.3F
	1349	1642	1.9E
	2029	2232	1.3F
28	0150	0459	2.0E
W	0847	1056	1.4F
	1421	1725	1.9E
	2111	2317	1.3F
29	0220	0544	2.0E
Th	0925	1141	1.4F
	1453	1809	1.9E
	2157		
30		0002	1.3F
F	0253	0629	1.9E
	1006	1226	1.4F
	1531	1857	1.9E
	2247		
31		0052	1.2F
Sa	0335	0717	1.8E
	1054	1317	1.4F
	1618	1948	1.9E
	2343		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

PORTSMOUTH HARBOR ENTRANCE (off Wood I.), N.H., 1991

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0145	1.1F	16	0047	0221	0.7F
Su	0430	0810	1.7E	M	0620	0853	1.3E
	1149	1408	1.3F		1255	1441	0.8F
	1718	2043	1.8E		1840	2128	1.5E
2	0044	0238	1.0F	17	0145	†0505	0.6F
M	0545	0907	1.6E	Tu	0721	0950	1.2E
	1252	1504	1.3F		1353	1534	0.7F
	1831	2143	1.8E		1937	2227	1.5E
3	0147	0339	1.0F	18	0241	†0540	0.6F
Tu	0711	1008	1.6E	W	0819	1050	1.2E
	1357	1603	1.2F		1451	1631	0.7F
	1944	2244	1.9E		2033	2326	1.5E
4	0249	0439	1.0F	19	0333	†0628	0.6F
W	0827	1110	1.7E	Th	0914	1150	1.3E
	1501	1704	1.2F		1544	1727	0.7F
	2052	2348	2.0E		2126		
5	0348	0544	1.1F	20		0021	1.6E
Th	0932	1217	1.8E	F	0419	0605	0.7F
	1602	1808	1.3F		1003	1242	1.4E
	2154				1633	1820	0.8F
					2214		
6		0050	2.1E	21		0105	1.7E
F	0442	0645	1.2F	Sa	0502	0653	0.9F
	1031	1318	1.9E		1047	1328	1.6E
	1658	1909	1.4F		1718	1909	1.0F
	2250				2258		
7		0147	2.2E	22		0146	1.8E
Sa	0533	0744	1.4F	Su	0542	0737	1.1F
	1125	1413	2.1E		1128	1410	1.7E
	1752	2004	1.5F		1801	1954	1.1F
	2343				2339		
8		0239	2.3E	23		0229	1.9E
Su	0622	0836	1.5F	M	0620	0820	1.2F
	1215	1506	2.2E		1206	1452	1.9E
	1843	2055	1.5F		1842	2039	1.2F
9	0033	0327	2.3E	24	0017	0308	2.0E
M	0709	0923	1.6F	Tu	0657	0901	1.4F
	1303	1554	2.2E		1241	1533	2.0E
	1933	2143	1.5F		1923	2124	1.3F
10	0121	0412	2.3E	25	0053	0351	2.0E
Tu	0755	1006	1.6F	W	0734	0944	1.5F
	1349	1638	2.2E		1315	1615	2.1E
	2022	2228	1.4F		2004	2208	1.4F
11	0207	0456	2.2E	26	0127	0433	2.0E
W	0840	1049	1.5F	Th	0812	1027	1.6F
	1434	1724	2.1E		1349	1700	2.1E
	2111	2312	1.3F		2047	2253	1.4F
12	0253	0540	2.0E	27	0203	0518	2.0E
Th	0926	1133	1.4F	F	0853	1114	1.6F
	1518	1807	2.0E		1425	1743	2.1E
	2201	2356	1.2F		2134	2340	1.3F
13	0340	0625	1.8E	28	0244	0603	1.9E
F	1014	1215	1.3F	Sa	0939	1159	1.5F
	1604	1854	1.9E		1508	1834	2.1E
	2254				2226		
14		0041	1.0F	29		0031	1.3F
Sa	0429	0710	1.6E	Su	0335	0654	1.8E
	1104	1303	1.1F		1031	1251	1.4F
	1652	1942	1.7E		1559	1926	2.0E
	2349				2322		
15		0130	0.8F	30		0124	1.2F
Su	0522	0801	1.4E	M	0438	0749	1.7E
	1158	1348	0.9F		1131	1344	1.3F
	1743	2033	1.6E		1702	2021	1.9E

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0024	0218	1.1F	16	0106	0242	0.7F
Tu	0554	0848	1.6E	W	0646	0915	1.2E
	1237	1443	1.2F		1320	1500	0.7F
	1816	2122	1.9E		1850	2145	1.5E
2	0126	0319	1.1F	17	0159	0337	0.7F
W	0709	0952	1.6E	Th	0743	1014	1.2E
	1344	1544	1.1F		1418	1555	0.7F
	1928	2225	1.9E		1949	2238	1.5E
3	0228	0422	1.1F	18	0249	0430	0.8F
Th	0817	1057	1.7E	F	0836	1112	1.3E
	1449	1646	1.1F		1512	1652	0.7F
	2036	2331	1.9E		2044	2333	1.6E
4	0326	0527	1.1F	19	0336	0526	0.9F
F	0918	1205	1.8E	Sa	0925	1205	1.5E
	1550	1751	1.2F		1602	1745	0.8F
	2137				2134		
5		0033	2.0E	20		0021	1.7E
Sa	0420	0630	1.2F	Su	0419	0614	1.0F
	1014	1309	1.9E		1009	1253	1.7E
	1646	1853	1.2F		1648	1837	1.0F
	2233				2221		
6		0130	2.1E	21		0109	1.8F
Su	0510	0725	1.4F	M	0501	0702	1.2F
	1106	1403	2.1E		1051	1337	1.8E
	1738	1950	1.3F		1732	1926	1.1F
	2325				2304		
7		0221	2.1E	22		0154	1.9E
M	0558	0813	1.4F	Tu	0540	0747	1.4F
	1154	1451	2.2E		1130	1420	2.0E
	1828	2038	1.3F		1815	2012	1.2F
					2346		
8	0014	0305	2.1E	23		0236	1.9E
Tu	0643	0857	1.5F	W	0620	0832	1.5F
	1239	1533	2.2E		1208	1504	2.2E
	1915	2122	1.3F		1858	2058	1.3F
9	0100	0349	2.1E	24	0026	0321	2.0E
W	0728	0937	1.5F	Th	0700	0917	1.6F
	1322	1614	2.2E		1245	1550	2.3E
	2002	2205	1.3F		1941	2143	1.4F
10	0145	0429	1.9E	25	0108	0408	2.0E
Th	0812	1019	1.4F	F	0743	1003	1.7F
	1404	1655	2.1E		1325	1636	2.3E
	2049	2244	1.2F		2027	2232	1.4F
11	0230	0511	1.8E	26	0153	0453	2.0E
F	0856	1100	1.3F	Sa	0828	1050	1.7F
	1445	1736	2.0E		1407	1723	2.3E
	2137	2327	1.1F		2115	2321	1.4F
12	0315	0554	1.6E	27	0242	0544	1.9E
Sa	0942	1143	1.2F	Su	0919	1139	1.6F
	1526	1820	1.9E		1455	1812	2.2E
	2226				2208		
13		0012	0.9F	28		0011	1.4F
Su	0401	0639	1.5E	M	0339	0635	1.8E
	1031	1228	1.1F		1015	1232	1.5F
	1610	1907	1.7E		1549	1907	2.2E
	2317				2304		
14		0100	0.8F	29		0106	1.3F
M	0452	0726	1.4E	Tu	0443	0733	1.7E
	1124	1317	0.9F		1117	1327	1.3F
	1657	1956	1.6E		1653	2002	2.1E
15	0011	0149	0.7F	30	0004	0203	1.2F
Tu	0548	0818	1.3E	W	0550	0832	1.7E
	1221	1406	0.8F		1223	1423	1.2F
	1751	2049	1.5E		1802	2102	2.0E
				31	0104	0302	1.2F
				Th	0657	0936	1.7E
					1330	1524	1.1F
					1911	2205	1.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0204	0406	1.1F
	0801	1044	1.7E
	1434	1629	1.0F
	2016	2312	1.9E
2 Sa	0301	0509	1.2F
	0900	1155	1.8E
	1535	1735	1.0F
	2116		
3 Su		0014	1.9E
	0355	0610	1.2F
	0954	1302	1.9E
	1631	1840	1.0F
	2213		
4 M		0112	1.9E
	0446	0706	1.3F
	1044	1353	2.0E
	1723	1936	1.1F
	2305		
5 Tu		0159	1.9E
	0533	0750	1.3F
	1131	1439	2.1E
	1813	2020	1.1F
	2354		
6 W		0241	1.9E
	0618	0830	1.3F
	1215	1516	2.1E
	1859	2103	1.1F
7 Th	0040	0322	1.8E
	0702	0911	1.3F
	1256	1553	2.1E
	1944	2140	1.1F
8 F	0125	0403	1.7E
	0745	0950	1.3F
	1336	1631	2.0E
	2029	2220	1.0F
9 Sa	0208	0444	1.6E
	0828	1031	1.2F
	1415	1710	2.0E
	2114	2301	1.0F
10 Su	0252	0526	1.5E
	0913	1114	1.1F
	1453	1753	1.9E
	2159	2346	0.9F
11 M	0336	0611	1.4E
	1000	1157	1.0F
	1531	1836	1.8E
	2246		
12 Tu		0031	0.9F
	0423	0700	1.4E
	1051	1244	0.9F
	1611	1923	1.7E
	2334		
13 W		0120	0.9F
	0513	0749	1.3E
	1146	1334	0.9F
	1657	2011	1.6E
14 Th	0024	0209	0.8F
	0607	0840	1.3E
	1243	1427	0.8F
	1751	2106	1.6E
15 F	0114	0259	0.9F
	0700	0934	1.3E
	1340	1520	0.7F
	1852	2157	1.6E
16 Sa	0203	0352	0.9F
	0752	1030	1.4E
	1435	1615	0.8F
	1951	2248	1.6E
17 Su	0250	0443	1.0F
	0842	1124	1.6E
	1527	1709	0.8F
	2046	2339	1.6E
18 M	0335	0536	1.1F
	0928	1215	1.7E
	1616	1801	0.9F
	2139		
19 Tu		0033	1.7E
	0419	0627	1.3F
	1013	1306	1.9E
	1703	1853	1.1F
	2228		
20 W		0120	1.8E
	0503	0715	1.4F
	1056	1352	2.1E
	1749	1944	1.2F
	2316		
21 Th		0207	1.9E
	0547	0802	1.6F
	1138	1439	2.2E
	1834	2033	1.3F
22 F	0004	0256	2.0E
	0632	0851	1.7F
	1222	1526	2.4E
	1920	2123	1.4F
23 Sa	0053	0345	2.0E
	0719	0940	1.7F
	1307	1615	2.4E
	2008	2212	1.5F
24 Su	0144	0435	2.0E
	0809	1029	1.7F
	1355	1704	2.4E
	2058	2303	1.5F
25 M	0237	0526	2.0E
	0903	1120	1.6F
	1446	1757	2.4E
	2150	2356	1.5F
26 Tu	0334	0621	1.9E
	1000	1212	1.5F
	1541	1849	2.3E
	2245		
27 W		0049	1.4F
	0434	0716	1.9E
	1102	1307	1.4F
	1641	1944	2.2E
	2341		
28 Th		0145	1.3F
	0536	0815	1.8E
	1206	1404	1.2F
	1744	2043	2.0E
29 F	0039	0242	1.3F
	0638	0918	1.7E
	1311	1503	1.0F
	1849	2142	1.9E
30 Sa	0137	0341	1.2F
	0738	1026	1.7E
	1415	1607	0.9F
	1952	2243	1.8E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0234	0442	1.2F
	0836	1142	1.8E
	1516	1710	0.9F
	2053	2350	1.7E
2 M	0329	0543	1.1F
	0930	1250	1.8E
	1614	1953	0.9F
	2150		
3 Tu		0051	1.7E
	0420	0637	1.1F
	1021	1347	1.9E
	1708	2048	0.9F
	2244		
4 W		0140	1.7E
	0509	0722	1.1F
	1108	1430	1.9E
	1757	2135	0.9F
	2334		
5 Th		0223	1.6E
	0555	0801	1.2F
	1152	1503	2.0E
	1843	2057	0.9F
6 F	0021	0301	1.6E
	0639	0842	1.2F
	1233	1532	2.0E
	1927	2120	0.9F
7 Sa	0105	0339	1.5E
	0722	0923	1.2F
	1312	1608	2.0E
	2009	2157	0.9F
8 Su	0148	0420	1.5E
	0804	1004	1.1F
	1350	1645	1.9E
	2050	2236	0.9F
9 M	0229	0501	1.5E
	0848	1046	1.1F
	1425	1727	1.9E
	2132	2319	1.0F
10 Tu	0311	0544	1.5E
	0932	1131	1.1F
	1459	1808	1.9E
	2214		
11 W		0004	1.0F
	0352	0629	1.4E
	1020	1216	1.0F
	1531	1851	1.8E
	2257		
12 Th		0048	1.0F
	0435	0716	1.4E
	1110	1303	0.9F
	1603	1938	1.7E
	2341		
13 F		0137	1.0F
	0521	0806	1.4E
	1203	1352	0.9F
	1642	2027	1.7E
14 Sa	0027	0226	1.0F
	0609	0859	1.4E
	1259	1445	0.8F
	1732	2118	1.6E
15 Su	0114	0315	1.1F
	0700	0950	1.5E
	1355	1537	0.8F
	1837	2208	1.6E
16 M	0203	0408	1.1F
	0752	1045	1.6E
	1450	1634	0.8F
	1948	2303	1.6E
17 Tu	0252	0459	1.2F
	0844	1138	1.7E
	1543	1729	0.9F
	2054	2354	1.7E
18 W	0341	0551	1.3F
	0935	1232	1.9E
	1634	1824	1.0F
	2154		
19 Th		0049	1.8E
	0431	0644	1.5F
	1025	1325	2.1E
	1723	1918	1.2F
	2251		
20 F		0141	1.9E
	0520	0737	1.6F
	1115	1416	2.3E
	1812	2013	1.3F
	2346		
21 Sa		0234	2.0E
	0610	0828	1.7F
	1204	1505	2.4E
	1901	2104	1.4F
22 Su	0039	0327	2.0E
	0702	0920	1.8F
	1253	1557	2.5E
	1949	2155	1.5F
23 M	0133	0418	2.1E
	0754	1011	1.8F
	1344	1648	2.5E
	2039	2248	1.6F
24 Tu	0226	0511	2.1E
	0848	1104	1.7F
	1435	1737	2.5E
	2130	2338	1.6F
25 W	0321	0603	2.1E
	0944	1155	1.6F
	1529	1830	2.4E
	2222		
26 Th		0031	1.5F
	0416	0658	2.0E
	1043	1248	1.4F
	1624	1923	2.3E
	2316		
27 F		0124	1.5F
	0514	0755	1.9E
	1144	1342	1.2F
	1723	2017	2.1E
28 Sa	0012	0217	1.3F
	0612	0856	1.8E
	1247	1439	1.0F
	1823	2113	1.9E
29 Su	0108	0312	1.2F
	0710	0959	1.7E
	1351	1538	0.9F
	1926	2215	1.7E
30 M	0205	0408	1.1F
	0808	1113	1.7E
	1454	†1744	0.7F
	2027	2316	1.6E
31 Tu	0301	0507	1.0F
	0903	1237	1.7E
	1554	1941	0.8F
	2126		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
† Middle of a long flood with an approximate speed indicated and maintained for about 2 1/4 hours.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1991

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0216	1.4E
Tu	0448	0746	1.4F
	1037	1440	1.5E
	1720	2026	1.4F
	2311		
2		0311	1.4E
W	0540	0842	1.4F
	1130	1536	1.5E
	1811	2120	1.4F
3	0003	0408	1.4E
Th	0633	0939	1.4F
	1222	1633	1.5E
	1903	2215	1.4F
4	0056	0506	1.3E
F	0729	1038	1.3F
	1315	1732	1.4E
	1957	2312	1.3F
5	0149	0605	1.3E
Sa	0824	1138	1.2F
	1410	1832	1.3E
	2050		
6		0010	1.2F
Su	0244	0704	1.3E
	0921	1239	1.1F
	1507	1932	1.2E
	2147		
7		0109	1.1F
M	0340	0803	1.3E
	1020	1340	1.0F
	1607	2031	1.2E
	2242		
8		0207	1.1F
Tu	0437	0902	1.3E
	1120	1439	1.0F
	1708	2129	1.2E
	2340		
9		0305	1.1F
W	0536	0958	1.3E
	1220	1537	1.0F
	1812	2225	1.2E
10	0037	0359	1.1F
Th	0635	1052	1.3E
	1316	1631	1.0F
	1921	2318	1.2E
11	0129	0451	1.1F
F	0731	1144	1.3E
	1408	1722	1.1F
	2023		
12		0008	1.2E
Sa	0219	0540	1.1F
	0820	1232	1.4E
	1455	1810	1.1F
	2104		
13		0056	1.2E
Su	0306	0627	1.1F
	0902	1318	1.4E
	1539	1855	1.1F
	2139		
14		0141	1.2E
M	0349	0710	1.2F
	0941	1401	1.3E
	1619	1936	1.2F
	2213		
15		0222	1.2E
Tu	0430	0750	1.2F
	1019	1440	1.3E
	1658	2015	1.2F
	2248		
16		0301	1.1E
W	0511	0826	1.2F
	1055	1515	1.2E
	1736	2049	1.2F
	2323		
17		0334	1.1E
Th	0551	0850	1.2F
	1133	1530	1.2E
	1813	2107	1.3F
18	0000	0328	1.1E
F	0631	0859	1.2F
	1212	1522	1.2E
	1852	2118	1.3F
19	0038	0338	1.1E
Sa	0713	0932	1.3F
	1252	1549	1.2E
	1933	2154	1.3F
20	0119	0410	1.2E
Su	0759	1013	1.3F
	1335	1624	1.2E
	2018	2235	1.4F
21	0202	0450	1.2E
M	0847	1059	1.3F
	1421	1707	1.2E
	2104	2322	1.4F
22	0249	0537	1.2E
Tu	0938	1148	1.2F
	1511	1757	1.1E
	2156		
23		0011	1.3F
W	0340	0631	1.2E
	1031	1240	1.2F
	1606	1854	1.0E
	2250		
24		0104	1.3F
Th	0434	0734	1.1E
	1180	1337	1.1F
	1705	2000	1.0E
	2348		
25		0201	1.2F
F	0532	0852	1.2E
	1229	1440	1.1F
	1807	2214	1.0E
26	0048	0304	1.2F
Sa	0632	1054	1.2E
	1327	1615	1.1F
	1909	2327	1.1E
27	0146	0427	1.2F
Su	0733	1155	1.3E
	1423	1735	1.2F
	2011		
28		0025	1.2E
M	0242	0552	1.3F
	0832	1249	1.5E
	1519	1833	1.3F
	2109		
29		0118	1.3E
Tu	0339	0652	1.3F
	0928	1341	1.5E
	1611	1927	1.4F
	2203		
30		0209	1.4E
W	0432	0747	1.4F
	1022	1432	1.6E
	1701	2018	1.5F
	2256		
31		0300	1.5E
Th	0524	0838	1.4F
	1114	1521	1.6E
	1751	2107	1.5F
	2346		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0350	1.5E
F	0616	0928	1.4F
	1205	1612	1.5E
	1840	2156	1.5F
2	0035	0441	1.5E
Sa	0707	1019	1.3F
	1255	1705	1.4E
	1930	2245	1.4F
3	0124	0535	1.4E
Su	0759	1111	1.3F
	1346	1800	1.3E
	2020	2336	1.3F
4	0213	0631	1.3E
M	0851	1206	1.1F
	1438	1858	1.2E
	2111		
5		0030	1.2F
Tu	0304	0730	1.3E
	0947	1303	1.0F
	1532	1957	1.1E
	2205		
6		0126	1.1F
W	0357	0828	1.2E
	1043	1401	1.0F
	1630	2056	1.0E
	2300		
7		0224	1.0F
Th	0452	0925	1.2E
	1140	1500	0.9F
	1730	2153	1.0E
	2358		
8		0321	1.0F
F	0549	1021	1.2E
	1239	1556	0.9F
	1831	2247	1.0E
9	0052	0417	1.0F
Sa	0645	1114	1.2E
	1331	1650	1.0F
	1930	2339	1.1E
10	0147	0509	1.0F
Su	0739	1204	1.3E
	1421	1740	1.0F
	2022		
11		0028	1.1E
M	0237	0557	1.1F
	0827	1250	1.3E
	1508	1826	1.1F
	2105		
12		0113	1.2E
Tu	0321	0642	1.1F
	0911	1333	1.3E
	1549	1908	1.2F
	2144		
13		0155	1.2E
W	0405	0724	1.2F
	0952	1412	1.3E
	1629	1947	1.3F
	2220		
14		0232	1.2E
Th	0446	0801	1.2F
	1031	1445	1.3E
	1707	2021	1.3F
	2257		
15		0302	1.2E
F	0527	0830	1.3F
	1109	1453	1.2E
	1745	2043	1.4F
	2334		
16		0301	1.2E
Sa	0607	0843	1.3F
	1148	1459	1.2E
	1824	2056	1.4F
17	0012	0316	1.3E
Su	0649	0911	1.4F
	1229	1526	1.2E
	1905	2129	1.5F
18	0052	0348	1.3E
M	0732	0950	1.4F
	1311	1600	1.2E
	1948	2210	1.5F
19	0135	0426	1.3E
Tu	0820	1034	1.3F
	1356	1641	1.2E
	2035	2254	1.4F
20	0221	0511	1.2E
W	0910	1121	1.2F
	1445	1729	1.1E
	2127	2343	1.3F
21	0310	0603	1.2E
Th	1007	1212	1.1F
	1539	1824	1.0E
	2224		
22		0035	1.2F
F	0405	0708	1.1E
	1106	1309	1.0F
	1640	1935	0.9E
	2325		
23		0132	1.1F
Sa	0505	0940	1.1E
	1207	1414	1.0F
	1745	2217	1.0E
24	0028	0240	1.0F
Su	0609	1046	1.2E
	1308	1622	1.0F
	1851	2317	1.1E
25	0129	0445	1.0F
M	0713	1144	1.3E
	1407	1727	1.1F
	1954		
26		0013	1.2E
Tu	0229	0549	1.1F
	0815	1238	1.4E
	1501	1823	1.2F
	2053		
27		0105	1.4E
W	0325	0645	1.3F
	0913	1328	1.5E
	1553	1914	1.4F
	2148		
28		0155	1.5E
Th	0418	0736	1.4F
	1007	1417	1.6E
	1642	2002	1.5F
	2238		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1991

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0243	1.6E
F	0508	0825	1.4F
	1058	1505	1.6E
	1730	2049	1.5F
	2326		
2		0330	1.6E
Sa	0557	0911	1.4F
	1146	1551	1.5E
	1817	2133	1.5F
3	0012	0418	1.5E
Su	0644	0958	1.4F
	1233	1639	1.4E
	1902	2217	1.4F
4	0057	0507	1.5E
M	0732	1044	1.3F
	1320	1730	1.3E
	1949	2302	1.3F
5	0142	0559	1.3E
Tu	0821	1132	1.2F
	1407	1825	1.1E
	2038	2348	1.2F
6	0228	0654	1.2E
W	0912	1223	1.1F
	1457	1922	1.0E
	2129		
7		0039	1.1F
Th	0317	0752	1.2E
	1007	1319	1.0F
	1550	2021	1.0E
	2221		
8		0137	1.0F
F	0408	0849	1.1E
	1101	1418	0.9F
	1646	2118	0.9E
	2318		
9		0237	0.9F
Sa	0503	0946	1.1E
	1158	1517	0.9F
	1744	2213	0.9E
10	0013	0336	0.9F
Su	0559	1039	1.1E
	1251	1612	0.9F
	1840	2306	1.0E
11	0109	0432	0.9F
M	0654	1129	1.2E
	1342	1704	1.0F
	1934	2355	1.1E
12	0201	0522	1.0F
Tu	0747	1216	1.2E
	1430	1751	1.1F
	2023		
13		0040	1.1E
W	0249	0609	1.1F
	0835	1259	1.2E
	1514	1835	1.2F
	2107		
14		0122	1.2E
Th	0334	0652	1.2F
	0920	1338	1.3E
	1556	1914	1.3F
	2148		
15		0158	1.3E
F	0418	0730	1.3F
	1002	1408	1.3E
	1636	1948	1.4F
	2227		
16		0225	1.3E
Sa	0459	0802	1.4F
	1043	1416	1.3E
	1716	2011	1.5F
	2307		
17		0232	1.3E
Su	0541	0823	1.4F
	1124	1435	1.3E
	1756	2031	1.5F
	2347		
18		0256	1.4E
M	0625	0851	1.4F
	1206	1505	1.3E
	1839	2106	1.5F
19	0028	0329	1.4E
Tu	0709	0929	1.4F
	1249	1541	1.2E
	1922	2146	1.5F
20	0111	0408	1.3E
W	0758	1012	1.3F
	1335	1623	1.2E
	2011	2231	1.4F
21	0157	0453	1.2E
Th	0849	1059	1.2F
	1425	1711	1.0E
	2106	2319	1.3F
22	0248	0544	1.1E
F	0946	1151	1.1F
	1520	1810	0.9E
	2204		
23		0012	1.1F
Sa	0343	0657	1.0E
	1045	1248	1.0F
	1622	2100	0.9E
	2307		
24		0112	1.0F
Su	0446	0930	1.1E
	1148	1457	0.9F
	1728	2203	1.0E
25	0010	0325	0.9F
M	0551	1031	1.2E
	1249	1613	1.0F
	1834	2302	1.1E
26	0114	0438	1.0F
Tu	0657	1128	1.3E
	1349	1713	1.1F
	1937	2357	1.3E
27	0215	0538	1.1F
W	0759	1221	1.4E
	1444	1807	1.2F
	2036		
28		0049	1.4E
Th	0311	0631	1.2F
	0857	1312	1.5E
	1535	1857	1.3F
	2129		
29		0138	1.5E
F	0402	0720	1.3F
	0951	1400	1.5E
	1622	1944	1.4F
	2219		
30		0225	1.6E
Sa	0450	0807	1.4F
	1040	1446	1.5E
	1708	2028	1.5F
	2304		
31		0311	1.6E
Su	0537	0852	1.4F
	1126	1531	1.5E
	1751	2111	1.4F
	2347		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0356	1.5E
M	0621	0936	1.3F
	1210	1617	1.4E
	1836	2152	1.4F
2	0029	0442	1.4E
Tu	0708	1019	1.3F
	1254	1704	1.2E
	1920	2231	1.3F
3	0111	0529	1.3E
W	0753	1102	1.2F
	1338	1755	1.1E
	2007	2307	1.2F
4	0154	0620	1.2E
Th	0840	1146	1.1F
	1424	1849	1.0E
	2055	2336	1.1F
5	024.	0715	1.1E
F	0930	1235	1.0F
	1512	1945	0.9E
	2146		
6		0014	1.0F
Sa	0328	0811	1.0E
	1021	1331	0.9F
	1604	2040	0.9E
	2239		
7		0137	0.9F
Su	0420	0906	1.0E
	1115	1430	0.9F
	1658	2135	0.9E
	2334		
8		0248	0.9F
M	0514	0959	1.0E
	1208	1527	0.9F
	1753	2227	0.9E
9	0029	0346	0.9F
Tu	0610	1049	1.1E
	1259	1619	1.0F
	1847	2316	1.0E
10	0121	0440	1.0F
W	0704	1137	1.1E
	1348	1708	1.1F
	1938		
11		0001	1.1E
Th	0212	0528	1.1F
	0755	1219	1.2E
	1434	1752	1.2F
	2025		
12		0042	1.2E
F	0300	0613	1.2F
	0844	1256	1.2E
	1519	1833	1.4F
	2111		
13		0117	1.3E
Sa	0346	0653	1.3F
	0930	1322	1.3E
	1602	1906	1.4F
	2154		
14		0141	1.4E
Su	0430	0727	1.4F
	1015	1341	1.3E
	1646	1934	1.5F
	2237		
15		0203	1.4E
M	0516	0756	1.4F
	1059	1411	1.3E
	1729	2004	1.5F
	2320		
16		0236	1.4E
Tu	0601	0831	1.4F
	1144	1448	1.3E
	1815	2044	1.5F
17	0005	0313	1.4E
W	0649	0911	1.4F
	1230	1529	1.2E
	1902	2126	1.5F
18	0051	0358	1.3E
Th	0739	0956	1.3F
	1319	1615	1.1E
	1954	2213	1.4F
19	0139	0447	1.2E
F	0830	1044	1.2F
	1411	1709	1.0E
	2049	2303	1.2F
20	0232	0550	1.1E
Sa	0928	1140	1.1F
	1508	1935	0.9E
	2149	2359	1.0F
21	0329	0807	1.1E
Su	1028	1326	0.9F
	1610	2044	1.0E
	2251		
22		0157	0.9F
M	0431	0913	1.1E
	1129	1451	0.9F
	1714	2145	1.1E
	2356		
23		0319	0.9F
Tu	0536	1013	1.2E
	1230	1556	1.0F
	1817	2243	1.2E
24	0100	0423	1.0F
W	0641	1109	1.3E
	1329	1653	1.1F
	1918	2338	1.3E
25	0159	0520	1.1F
Th	0743	1203	1.4E
	1423	1746	1.2F
	2017		
26		0030	1.4E
F	0254	0612	1.2F
	0841	1253	1.4E
	1513	1836	1.3F
	2109		
27		0119	1.5E
Sa	0344	0701	1.2F
	0934	1341	1.4E
	1600	1922	1.3F
	2157		
28		0206	1.5E
Su	0431	0747	1.3F
	1022	1427	1.4E
	1645	2006	1.4F
	2240		
29		0251	1.5E
M	0516	0832	1.3F
	1106	1513	1.4E
	1729	2048	1.3F
	2322		
30		0336	1.5E
Tu	0600	0915	1.3F
	1148	1557	1.3E
	1811	2128	1.3F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1991

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 W	0002	0420	1.4E
	0642	0956	1.2F
	1229	1642	1.2E
	1854	2206	1.2F
2 Th	0042	0504	1.3E
	0727	1036	1.1F
	1311	1728	1.1E
	1939	2236	1.2F
3 F	0124	0550	1.2E
	0811	1114	1.1F
	1353	1816	1.0E
	2025	2252	1.1F
4 Sa	0207	0636	1.1E
	0858	1142	1.0F
	1438	1906	0.9E
	2112	2331	1.0F
5 Su	0253	0726	1.0E
	0945	1212	1.0F
	1526	1958	0.9E
	2203		
6 M		0017	1.0F
	0342	0817	1.0E
	1034	1301	1.0F
	1616	2049	0.9E
	2257		
7 Tu		0113	1.0F
	0433	0908	1.0E
	1124	1404	1.0F
	1709	2139	0.9E
	2349		
8 W		0215	1.0F
	0527	0958	1.0E
	1214	1511	1.1F
	1801	2227	1.0E
9 Th	0041	0331	1.1F
	0621	1042	1.0E
	1304	1604	1.2F
	1853	2311	1.1E
10 F	0133	0429	1.1F
	0714	1121	1.1E
	1352	1651	1.3F
	1943	2350	1.2E
11 Sa	0223	0519	1.2F
	0806	1153	1.2E
	1440	1733	1.4F
	2032		
12 Su		0024	1.3E
	0312	0604	1.3F
	0857	1228	1.2E
	1529	1814	1.5F
	2120		
13 M	0401	0047	1.4E
	0946	1308	1.4F
	1617	1855	1.3E
	2208		1.5F
14 Tu		0137	1.4E
	0450	0729	1.4F
	1034	1351	1.3E
	1705	1939	1.5F
	2255		
15 W		0221	1.4E
	0539	0813	1.4F
	1123	1438	1.3E
	1754	2024	1.5F
	2343		
16 Th		0307	1.4E
	0629	0900	1.4F
	1213	1528	1.2E
	1846	2112	1.4F
17 F	0033	0400	1.3E
	0720	0951	1.3F
	1305	1631	1.1E
	1939	2203	1.3F
18 Sa	0124	0511	1.3E
	0814	1051	1.2F
	1359	1813	1.1E
	2036	2302	1.2F
19 Su	0219	0642	1.2E
	0910	1216	1.1F
	1457	1921	1.1E
	2135		
20 M		0040	1.0F
	0317	0750	1.2E
	1009	1328	1.0F
	1556	2024	1.1E
	2237		
21 Tu		0156	1.0F
	0418	0852	1.2E
	1108	1432	1.0F
	1657	2124	1.2E
	2339		
22 W		0301	1.0F
	0521	0951	1.2E
	1208	1533	1.1F
	1758	2222	1.2E
23 Th	0041	0401	1.0F
	0624	1048	1.3E
	1304	1629	1.1F
	1858	2316	1.3E
24 F	0139	0457	1.1F
	0725	1142	1.3E
	1359	1721	1.2F
	1955		
25 Sa		0008	1.4E
	0233	0550	1.1F
	0824	1232	1.3E
	1449	1811	1.2F
	2047		
26 Su		0058	1.5E
	0323	0639	1.2F
	0917	1321	1.3E
	1537	1858	1.2F
	2133		
27 M		0145	1.5E
	0410	0726	1.2F
	1003	1408	1.3E
	1621	1943	1.2F
	2216		
28 Tu		0231	1.5E
	0454	0811	1.2F
	1046	1453	1.3E
	1705	2026	1.2F
	2257		
29 W		0316	1.4E
	0538	0854	1.2F
	1126	1538	1.2E
	1748	2107	1.2F
	2336		
30 Th		0359	1.3E
	0619	0935	1.1F
	1205	1621	1.1E
	1830	2145	1.1F
31 F	0015	0440	1.3E
	0700	1013	1.1F
	1244	1703	1.1E
	1913	2215	1.1F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Sa	0055	0519	1.2E
	0742	1046	1.1F
	1325	1744	1.0E
	1958	2223	1.1F
2 Su	0137	0551	1.1E
	0826	1055	1.1F
	1407	1816	1.0E
	2042	2300	1.1F
3 M	0221	0538	1.1E
	0910	1130	1.1F
	1452	1758	1.0E
	2130	2345	1.1F
4 Tu	0308	0612	1.0E
	0956	1213	1.2F
	1539	1840	1.0E
	2220		
5 W		0034	1.1F
	0357	0659	1.0E
	1042	1302	1.2F
	1628	1931	1.0E
	2311		
6 Th		0124	1.1F
	0449	0750	1.0E
	1132	1354	1.2F
	1719	2028	1.1E
7 F	0003	0221	1.2F
	0542	0847	1.1E
	1222	1447	1.3F
	1811	2128	1.2E
8 Sa	0057	0317	1.2F
	0636	0946	1.1E
	1314	1541	1.3F
	1903	2228	1.2E
9 Su	0149	0415	1.3F
	0730	1046	1.1E
	1407	1635	1.4F
	1956	2327	1.3E
10 M	0241	0514	1.3F
	0824	1146	1.2E
	1458	1730	1.4F
	2048		
11 Tu	0333	0024	1.4E
	0918	0611	1.3F
	1550	1245	1.2E
	2140	1824	1.4F
12 W	0426	0120	1.4E
	1011	0708	1.4F
	1641	1345	1.3E
	2231	1918	1.4F
13 Th	0518	0217	1.4E
	1104	0806	1.4F
	1735	1447	1.3E
	2323	2014	1.4F
14 F	0609	0316	1.4E
	1157	0904	1.4F
	1829	1553	1.3E
		2113	1.4F
15 Sa	0016	0419	1.4E
	0701	1004	1.3F
	1251	1656	1.2E
	1923	2220	1.3F
16 Su	0110	0523	1.3E
	0756	1106	1.3F
	1345	1759	1.2E
	2020	2329	1.2F
17 M	0205	0626	1.3E
	0850	1207	1.2F
	1441	1900	1.2E
	2118		
18 Tu		0034	1.1F
	0302	0728	1.2E
	0947	1308	1.2F
	1538	2001	1.2E
	2218		
19 W		0137	1.1F
	0402	0828	1.2E
	1043	1407	1.1F
	1636	2100	1.3E
	2318		
20 Th		0237	1.0F
	0503	0927	1.2E
	1140	1505	1.1F
	1735	2157	1.3E
21 F	0018	0336	1.0F
	0605	1023	1.2E
	1237	1600	1.1F
	1834	2252	1.3E
22 Sa	0114	0431	1.0F
	0708	1117	1.2E
	1330	1654	1.1F
	1930	2344	1.4E
23 Su	0209	0525	1.1F
	0808	1209	1.2E
	1422	1745	1.1F
	2022		
24 M		0035	1.4E
	0300	0615	1.1F
	0902	1259	1.2E
	1511	1833	1.1F
	2109		
25 Tu		0123	1.4E
	0348	0703	1.1F
	0945	1346	1.2E
	1559	1919	1.1F
	2151		
26 W		0209	1.4E
	0430	0748	1.1F
	1025	1432	1.2E
	1641	2003	1.1F
	2231		
27 Th		0254	1.3E
	0512	0831	1.1F
	1103	1516	1.2E
	1724	2045	1.1F
	2310		
28 F		0336	1.3E
	0553	0911	1.1F
	1140	1557	1.1E
	1807	2122	1.1F
	2349		
29 Sa		0415	1.2E
	0632	0948	1.1F
	1218	1636	1.1E
	1848	2152	1.1F
30 Su	0028	0447	1.1E
	0712	1015	1.1F
	1256	1707	1.0E
	1930	2157	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0109	0434	1.1E	16	0147	0603	1.4E
M	0753	1021	1.2F	Tu	0826	1144	1.3F
	1337	1646	1.0E		1419	1836	1.3E
	2014	2231	1.2F		2057		
2	0151	0453	1.1E	17		0013	1.2F
Tu	0835	1055	1.2F	W	0243	0702	1.3E
	1419	1716	1.1E		0920	1241	1.2F
	2059	2314	1.2F		1514	1934	1.3E
					2153		
3	0236	0530	1.1E	18		0112	1.1F
W	0919	1138	1.3F	Th	0340	0801	1.2E
	1504	1757	1.1E		1015	1338	1.2F
	2148				1610	2032	1.3E
					2251		
4		0000	1.2F	19		0210	1.1F
Th	0324	0614	1.1E	F	0440	0900	1.2E
	1007	1225	1.3F		1110	1435	1.1F
	1552	1845	1.2E		1706	2130	1.3E
	2238				2350		
5		0051	1.2F	20		0307	1.0F
F	0414	0703	1.1E	Sa	0541	0957	1.1E
	1056	1315	1.3F		1207	1530	1.1F
	1642	1939	1.2E		1804	2225	1.3E
	2330						
6		0143	1.2F	21	0047	0403	1.0F
Sa	0507	0800	1.1E	Su	0644	1052	1.1E
	1148	1406	1.3F		1301	1624	1.1F
	1734	2038	1.2E		1900	2319	1.3E
7	0024	0239	1.2F	22	0140	0457	1.0F
Su	0602	0901	1.1E	M	0748	1145	1.2E
	1241	1502	1.4F		1355	1717	1.1F
	1829	2144	1.3E		1953		
8	0119	0337	1.2F	23		0010	1.3E
M	0659	1009	1.1E	Tu	0232	0548	1.1F
	1337	1559	1.4F		0842	1235	1.2E
	1924	2253	1.3E		1445	1806	1.1F
					2042		
9	0214	0440	1.3F	24		0058	1.3E
Tu	0757	1124	1.2E	W	0320	0636	1.1F
	1431	1658	1.4F		0924	1323	1.2E
	2020				1531	1353	1.1F
					2125		
10		0010	1.4E	25		0145	1.3E
W	0309	0549	1.3F	Th	0403	0721	1.1F
	0854	1248	1.2E		1001	1408	1.2E
	1528	1802	1.4F		1618	1937	1.1F
	2115				2205		
11		0117	1.4E	26		0228	1.3E
Th	0402	0658	1.3F	F	0445	0804	1.1F
	0951	1353	1.3E		1037	1450	1.2E
	1621	1911	1.4F		1659	2018	1.1F
	2210				2244		
12		0215	1.5E	27		0308	1.2E
F	0456	0800	1.4F	Sa	0524	0843	1.2F
	1046	1448	1.3E		1112	1530	1.1E
	1717	2016	1.4F		1740	2055	1.1F
	2305				2322		
13		0312	1.5E	28		0345	1.2E
Sa	0548	0857	1.4F	Su	0602	0917	1.2F
	1140	1544	1.4E		1149	1605	1.1E
	1810	2117	1.4F		1821	2123	1.1F
	2359						
14		0408	1.5E	29	0000	0407	1.1E
Su	0640	0953	1.4F	M	0640	0935	1.2F
	1233	1640	1.4E		1226	1610	1.1E
	1906	2216	1.3F		1902	2129	1.2F
15	0052	0505	1.4E	30	0040	0350	1.1E
M	0732	1048	1.4F	Tu	0720	0945	1.3F
	1326	1737	1.4E		1306	1609	1.1E
	2000	2315	1.3F		1945	2202	1.2F
				31	0122	0417	1.1E
				W	0801	1022	1.3F
					1347	1641	1.2E
					2029	2244	1.3F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0206	0454	1.1E	16		0042	1.1F
Th	0846	1105	1.4F	F	0313	0733	1.2E
	1432	1723	1.2E		0943	1306	1.2F
	2118	2330	1.3F		1537	2003	1.3E
					2221		
2	0253	0539	1.1E	17		0140	1.1F
F	0932	1152	1.4F	Sa	0411	0831	1.1E
	1519	1810	1.2E		1039	1402	1.1F
	2208				1632	2101	1.3E
					2319		
3		0020	1.2F	18		0238	1.0F
Sa	0344	0629	1.1E	Su	0511	0929	1.1E
	1023	1242	1.4F		1136	1459	1.0F
	1609	1904	1.2E		1729	2157	1.3E
	2301						
4		0112	1.2F	19	0016	0334	1.0F
Su	0438	0726	1.1E	M	0612	1024	1.1E
	1118	1335	1.3F		1231	1554	1.0F
	1703	2006	1.2E		1825	2250	1.3E
	2358						
5		0208	1.2F	20	0110	0428	1.0F
M	0535	0832	1.0E	Tu	0714	1117	1.1E
	1215	1431	1.3F		1326	1647	1.0F
	1800	2118	1.2E		1920	2342	1.3E
6	0054	0310	1.2F	21	0201	0519	1.0F
Tu	0635	0954	1.1E	W	0809	1207	1.1E
	1312	1532	1.2F		1417	1737	1.1F
	1858	2300	1.3E		2010		
7	0150	0423	1.2F	22		0030	1.3E
W	0736	1146	1.1E	Th	0249	0606	1.1F
	1410	1641	1.2F		0852	1255	1.2E
	1958				1503	1824	1.1F
					2055		
8		0012	1.4E	23		0115	1.3E
Th	0248	0549	1.2F	F	0331	0651	1.2F
	0835	1246	1.3E		0929	1339	1.2E
	1509	1806	1.3F		1549	1907	1.1F
	2055				2136		
9		0109	1.4E	24		0157	1.3E
F	0341	0651	1.3F	Sa	0412	0731	1.2F
	0932	1340	1.4E		1005	1420	1.2E
	1603	1911	1.3F		1630	1947	1.2F
	2151				2215		
10		0203	1.5E	25		0236	1.2E
Sa	0433	0747	1.4F	Su	0451	0809	1.2F
	1026	1433	1.4E		1041	1456	1.2E
	1658	2008	1.4F		1711	2022	1.2F
	2246				2253		
11		0255	1.5E	26		0306	1.2E
Su	0526	0840	1.4F	M	0529	0839	1.3F
	1119	1525	1.5E		1118	1524	1.2E
	1751	2103	1.4F		1751	2044	1.2F
	2339				2332		
12		0347	1.5E	27		0300	1.1E
M	0617	0931	1.4F	Tu	0608	0847	1.3F
	1210	1617	1.5E		1155	1513	1.2E
	1843	2157	1.3F		1832	2057	1.3F
13	0032	0441	1.4E	28	0012	0314	1.2E
Tu	0707	1023	1.4F	W	0648	0912	1.4F
	1301	1712	1.4E		1235	1533	1.2E
	1937	2250	1.3F		1916	2133	1.3F
14	0124	0537	1.4E	29	0053	0344	1.2E
W	0758	1116	1.3F	Th	0729	0951	1.4F
	1352	1807	1.4E		1316	1610	1.2E
	2030	2346	1.2F		2001	2215	1.3F
15	0218	0634	1.3E	30	0138	0423	1.1E
Th	0850	1210	1.2F	F	0816	1035	1.4F
	1444	1905	1.3E		1401	1652	1.2E
	2126				2050	2301	1.2F
				31	0225	0508	1.1E
				Sa	0905	1122	1.3F
					1449	1741	1.2E
					2141	2351	1.2F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1991

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0317	0601	1.0E
	0959	1213	1.3F
	1541	1838	1.2E
	2239		
2 M		0045	1.1F
	0413	0701	1.0E
	1056	1308	1.2F
	1638	1946	1.1E
	2336		
3 Tu		0144	1.1F
	0514	0823	1.0E
	1156	1407	1.1F
	1738	2157	1.2E
4 W	0034	0258	1.1F
	0617	1039	1.1E
	1256	1520	1.1F
	1839	2306	1.3E
5 Th	0131	0442	1.1F
	0719	1138	1.2E
	1355	1703	1.2F
	1940		
6 F		0002	1.4E
	0228	0544	1.2F
	0818	1232	1.3E
	1451	1806	1.2F
	2039		
7 Sa		0055	1.4E
	0321	0639	1.3F
	0914	1324	1.4E
	1547	1901	1.3F
	2134		
8 Su		0146	1.5E
	0411	0729	1.4F
	1006	1414	1.5E
	1639	1953	1.4F
	2227		
9 M		0236	1.5E
	0501	0818	1.5F
	1057	1503	1.5E
	1730	2043	1.4F
	2318		
10 Tu		0325	1.5E
	0550	0907	1.5F
	1145	1554	1.5E
	1820	2133	1.3F
11 W	0008	0416	1.4E
	0639	0955	1.4F
	1233	1645	1.5E
	1911	2224	1.3F
12 Th	0058	0509	1.3E
	0729	1043	1.3F
	1321	1739	1.4E
	2002	2316	1.2F
13 F	0149	0606	1.2E
	0819	1136	1.2F
	1411	1835	1.3E
	2056		
14 Sa		0011	1.1F
	0242	0703	1.1E
	0911	1231	1.1F
	1502	1932	1.2E
	2150		
15 Su		0108	1.0F
	0337	0801	1.0E
	1007	1328	1.0F
	1556	2030	1.2E
	2247		
16 M		0206	1.0F
	0435	0858	1.0E
	1102	1426	1.0F
	1651	2127	1.2E
	2341		
17 Tu		0302	1.0F
	0533	0954	1.0E
	1159	1522	1.0F
	1747	2219	1.2E
18 W	0036	0355	1.0F
	0631	1047	1.1E
	1253	1615	1.0F
	1842	2310	1.2E
19 Th	0126	0446	1.1F
	0724	1136	1.1E
	1344	1705	1.1F
	1933	2358	1.2E
20 F	0212	0532	1.1F
	0810	1222	1.2E
	1431	1751	1.1F
	2020		
21 Sa		0042	1.3E
	0255	0615	1.2F
	0851	1305	1.2E
	1517	1834	1.2F
	2103		
22 Su		0122	1.2E
	0337	0655	1.3F
	0930	1344	1.2E
	1559	1913	1.2F
	2143		
23 M		0156	1.2E
	0416	0730	1.3F
	1007	1416	1.2E
	1640	1945	1.3F
	2223		
24 Tu		0211	1.2E
	0455	0753	1.4F
	1045	1423	1.2E
	1721	2002	1.3F
	2303		
25 W		0216	1.2E
	0535	0809	1.4F
	1124	1436	1.3E
	1804	2028	1.3F
	2344		
26 Th		0242	1.2E
	0617	0842	1.4F
	1205	1506	1.3E
	1849	2106	1.3F
27 F	0027	0317	1.2E
	0700	0923	1.4F
	1248	1544	1.3E
	1936	2149	1.3F
28 Sa	0112	0357	1.1E
	0749	1009	1.4F
	1334	1628	1.2E
	2027	2236	1.2F
29 Su	0202	0446	1.0E
	0841	1055	1.3F
	1424	1720	1.2E
	2120	2327	1.1F
30 M	0256	0543	1.0E
	0939	1148	1.2F
	1518	1822	1.1E
	2218		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu		0023	1.0F
	0355	0654	0.9E
	1039	1246	1.1F
	1618	2050	1.1E
	2318		
2 W		0133	1.0F
	0458	0929	1.0E
	1140	1358	1.0F
	1721	2157	1.2E
3 Th	0017	0334	1.0F
	0602	1028	1.1E
	1241	1559	1.0F
	1824	2256	1.3E
4 F	0115	0437	1.1F
	0703	1124	1.2E
	1341	1701	1.1F
	1925	2348	1.4E
5 Sa	0210	0531	1.2F
	0801	1217	1.4E
	1437	1756	1.2F
	2023		
6 Su		0039	1.4E
	0301	0623	1.3F
	0856	1307	1.5E
	1530	1847	1.3F
	2118		
7 M		0128	1.5E
	0350	0711	1.4F
	0946	1355	1.5E
	1620	1936	1.4F
	2209		
8 Tu		0216	1.5E
	0439	0757	1.4F
	1034	1442	1.6E
	1709	2023	1.4F
	2258		
9 W		0305	1.4E
	0525	0842	1.4F
	1120	1530	1.5E
	1757	2110	1.3F
	2345		
10 Th		0353	1.3E
	0611	0927	1.4F
	1205	1620	1.5E
	1845	2157	1.2F
11 F	0032	0445	1.2E
	0659	1012	1.3F
	1250	1712	1.4E
	1934	2246	1.1F
12 Sa	0120	0538	1.1E
	0749	1059	1.2F
	1337	1805	1.3E
	2025	2338	1.0F
13 Su	0210	0634	1.1E
	0840	1152	1.0F
	1426	1901	1.2E
	2118		
14 M		0033	1.0F
	0302	0730	1.0E
	0932	1250	1.0F
	1517	1957	1.1E
	2210		
15 Tu		0130	0.9F
	0355	0825	1.0E
	1029	1349	0.9F
	1611	2051	1.1E
	2303		
16 W		0225	0.9F
	0451	0919	1.0E
	1123	1446	0.9F
	1706	2144	1.1E
	2356		
17 Th		0318	1.0F
	0545	1011	1.0E
	1218	1539	1.0F
	1801	2234	1.1E
18 F	0046	0408	1.1F
	0637	1100	1.1E
	1309	1628	1.1F
	1853	2320	1.2E
19 Sa	0132	0454	1.2F
	0725	1145	1.2E
	1357	1714	1.1F
	1941		
20 Su		0003	1.2E
	0217	0536	1.3F
	0810	1226	1.2E
	1441	1756	1.2F
	2027		
21 M		0040	1.2E
	0259	0614	1.4F
	0852	1301	1.3E
	1526	1834	1.3F
	2110		
22 Tu		0106	1.2E
	0340	0646	1.4F
	0933	1323	1.3E
	1609	1905	1.4F
	2152		
23 W		0117	1.2E
	0422	0707	1.5F
	1013	1338	1.3E
	1651	1928	1.4F
	2235		
24 Th		0144	1.2E
	0505	0737	1.5F
	1055	1407	1.4E
	1737	2001	1.4F
	2318		
25 F		0218	1.2E
	0549	0815	1.5F
	1138	1444	1.3E
	1822	2042	1.4F
26 Sa	0003	0257	1.2E
	0637	0858	1.4F
	1223	1525	1.3E
	1911	2127	1.3F
27 Su	0051	0342	1.1E
	0728	0944	1.3F
	1311	1613	1.2E
	2005	2215	1.2F
28 M	0143	0434	1.0E
	0822	1034	1.2F
	1403	1709	1.1E
	2100	2309	1.1F
29 Tu	0239	0542	0.9E
	0921	1130	1.1F
	1500	1930	1.1E
	2159		
30 W		0011	1.0F
	0340	0812	1.0E
	1022	1235	0.9F
	1602	2041	1.1E
	2259		
31 Th		0218	1.0F
	0443	0915	1.1E
	1127	1447	0.9F
	1706	2142	1.2E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0000	0325	1.0F	16	0001	0321	1.1F
F	0546	1013	1.2E	Sa	0550	1018	1.1E
	1229	1552	1.0F		1229	1544	1.1F
	1810	2239	1.3E		1810	2237	1.1E
2	0058	0422	1.1F	17	0049	0407	1.2F
Sa	0646	1108	1.3E	Su	0640	1102	1.1E
	1328	1649	1.1F		1319	1630	1.1F
	1911	2332	1.3E		1901	2317	1.1E
3	0151	0516	1.2F	18	0137	0449	1.3F
Su	0744	1200	1.4E	M	0728	1141	1.2E
	1422	1742	1.2F		1407	1713	1.2F
	2009				1950	2350	1.2E
4		0023	1.4E	19	0221	0527	1.4F
M	0242	0605	1.3F	Tu	0814	1212	1.3E
	0837	1249	1.5E		1452	1752	1.3F
	1513	1831	1.3F		2037		
	2103						
5		0112	1.4E	20		0011	1.2E
Tu	0330	0652	1.4F	W	0308	0558	1.5F
	0926	1337	1.5E		0859	1235	1.4E
	1602	1918	1.3F		1539	1826	1.4F
	2152				2123		
6		0159	1.4E	21		0042	1.2E
W	0417	0737	1.4F	Th	0352	0632	1.5F
	1012	1424	1.5E		0944	1308	1.4E
	1649	2004	1.3F		1626	1902	1.4F
	2239				2210		
7		0246	1.4E	22		0120	1.3E
Th	0501	0821	1.4F	F	0439	0710	1.5F
	1056	1510	1.5E		1029	1346	1.4E
	1734	2049	1.3F		1711	1941	1.4F
	2324				2256		
8		0333	1.3E	23		0202	1.2E
F	0548	0903	1.3F	Sa	0528	0754	1.5F
	1139	1557	1.4E		1115	1429	1.4E
	1820	2133	1.2F		1800	2024	1.4F
					2344		
9	0008	0422	1.2E	24		0248	1.2E
Sa	0632	0945	1.2F	Su	0617	0839	1.4F
	1222	1645	1.3E		1203	1516	1.3E
	1907	2218	1.1F		1851	2110	1.3F
10	0052	0511	1.1E	25	0034	0339	1.1E
Su	0720	1026	1.1F	M	0709	0928	1.3F
	1306	1735	1.2E		1253	1610	1.2E
	1953	2304	1.0F		1944	2202	1.2F
11	0138	0603	1.0E	26	0127	0443	1.0E
M	0809	1106	1.0F	Tu	0806	1020	1.2F
	1351	1827	1.1E		1347	1732	1.1E
	2042	2354	1.0F		2040	2301	1.1F
12	0225	0655	1.0E	27	0224	0648	1.0E
Tu	0900	1157	1.0F	W	0905	1120	1.0F
	1440	1919	1.1E		1445	1917	1.1E
	2131				2138		
13		0046	0.9F	28		0048	1.0F
W	0315	0748	0.9E	Th	0323	0754	1.1E
	0951	1259	0.9F		1007	1321	0.9F
	1530	2011	1.0E		1546	2022	1.1E
	2222				2238		
14		0139	1.0F	29		0201	1.0F
Th	0406	0840	1.0E	F	0425	0855	1.1E
	1045	1359	0.9F		1110	1432	0.9F
	1623	2102	1.0E		1650	2123	1.2E
	2312				2338		
15		0232	1.0F	30		0304	1.0F
F	0458	0930	1.0E	Sa	0526	0954	1.2E
	1138	1453	1.0F		1212	1534	1.0F
	1717	2151	1.0E		1753	2220	1.2E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0037	0402	1.1F	16	0007	0237	1.2F
Su	0627	1049	1.3E	M	0555	0958	1.1E
	1312	1631	1.1F		1240	1514	1.1F
	1856	2314	1.3E		1820	2149	1.0E
2	0131	0456	1.2F	17	0057	0332	1.3F
M	0725	1142	1.4E	Tu	0646	1038	1.2E
	1407	1724	1.1F		1331	1613	1.2F
	1956				1913	2242	1.1E
3		0006	1.3E	18	0148	0423	1.4F
Tu	0223	0546	1.2F	W	0737	1120	1.3E
	0820	1232	1.5E		1421	1706	1.3F
	1458	1814	1.2F		2006	2332	1.2E
	2051						
4		0055	1.4E	19	0237	0515	1.4F
W	0311	0634	1.3F	Th	0827	1204	1.4E
	0908	1320	1.5E		1511	1757	1.4F
	1546	1901	1.2F		2057		
	2140						
5		0143	1.3E	20		0020	1.2E
Th	0358	0719	1.3F	F	0327	0604	1.5F
	0953	1406	1.5E		0917	1250	1.4E
	1630	1947	1.2F		1600	1843	1.4F
	2224				2147		
6		0229	1.3E	21		0109	1.3E
F	0442	0803	1.3F	Sa	0418	0652	1.5F
	1035	1452	1.5E		1006	1336	1.5E
	1714	2031	1.2F		1650	1930	1.4F
	2306				2238		
7		0315	1.2E	22		0159	1.3E
Sa	0527	0845	1.2F	Su	0508	0740	1.5F
	1116	1537	1.4E		1056	1425	1.5E
	1758	2113	1.2F		1740	2019	1.4F
	2346				2328		
8		0400	1.2E	23		0252	1.3E
Su	0610	0925	1.2F	M	0559	0829	1.4F
	1157	1620	1.3E		1146	1518	1.4E
	1840	2154	1.1F		1831	2109	1.4F
9	0027	0445	1.1E	24	0019	0355	1.2E
M	0654	1001	1.1F	Tu	0652	0922	1.3F
	1237	1705	1.2E		1238	1622	1.3E
	1923	2232	1.1F		1923	2205	1.3F
10	0108	0530	1.0E	25	0112	0516	1.2E
Tu	0740	1014	1.1F	W	0748	1021	1.2F
	1320	1748	1.1E		1331	1744	1.2E
	2008	2301	1.1F		2018	2317	1.2F
11	0150	0616	1.0E	26	0206	0625	1.2E
W	0827	1044	1.0F	Th	0846	1146	1.1F
	1404	1831	1.0E		1428	1854	1.2E
	2052	2318	1.0F		2113		
12	0235	0702	0.9E	27		0029	1.1F
Th	0916	1129	1.0F	F	0303	0729	1.2E
	1451	1915	1.0E		0946	1302	1.0F
	2139				1527	1958	1.1E
					2211		
13		0000	1.1F	28		0135	1.1F
F	0322	0748	0.9E	Sa	0402	0831	1.2E
	1006	1219	1.0F		1048	1408	1.0F
	1541	1900	0.9E		1629	2059	1.1E
	2228				2311		
14		0048	1.1F	29		0237	1.1F
Sa	0412	0834	1.0E	Su	0502	0930	1.2E
	1057	1314	1.0F		1150	1510	1.0F
	1633	1951	1.0E		1733	2158	1.2E
	2317						
15		0142	1.1F	30	0011	0337	1.1F
Su	0503	0918	1.0E	M	0603	1027	1.3E
	1149	1412	1.1F		1251	1609	1.0F
	1726	2051	1.0E		1838	2254	1.2E
				31	0109	0432	1.1F
				Tu	0703	1121	1.4E
					1349	1704	1.1F
					1944	2347	1.3E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the speed actually averages 0.3 knot in a direction of 184° true.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1991

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0005	4.6E
Tu	0308	0608	4.5F
	0919	1222	5.1E
	1536	1846	4.9F
	2211		
2		0056	4.7E
W	0359	0659	4.5F
	1009	1314	5.2E
	1627	1936	4.9F
	2302		
3		0145	4.7E
Th	0450	0749	4.5F
	1100	1403	5.1E
	1716	2025	4.9F
	2351		
4		0234	4.7E
F	0540	0838	4.5F
	1152	1454	5.0E
	1806	2113	4.7F
5	0040	0325	4.6E
Sa	0631	0929	4.3F
	1244	1544	4.8E
	1856	2202	4.5F
6	0130	0417	4.4E
Su	0723	1023	4.1F
	1340	1636	4.5E
	1948	2255	4.2F
7	0221	0508	4.3E
M	0817	1118	3.9F
	1438	1730	4.2E
	2041	2347	4.0F
8	0314	0600	4.1E
Tu	0914	1219	3.7F
	1540	1826	4.0E
	2138		
9		0045	3.7F
W	0409	0656	4.0E
	1014	1324	3.6F
	1643	1925	3.8E
	2236		
10		0146	3.6F
Th	0504	0753	3.9E
	1114	1432	3.6F
	1745	2023	3.7E
	2335		
11		0249	3.5F
F	0558	0846	3.9E
	1212	1537	3.7F
	1843	2120	3.7E
12	0031	0347	3.5F
Sa	0649	0943	4.0E
	1304	1628	3.8F
	1936	2211	3.7E
13	0122	0434	3.6F
Su	0737	1032	4.2E
	1351	1713	3.9F
	2023	2300	3.8E
14	0208	0515	3.7F
M	0820	1114	4.3E
	1434	1751	4.1F
	2106	2342	4.0E
15	0250	0552	3.8F
Tu	0901	1157	4.4E
	1513	1824	4.2F
	2146		
16		0024	4.1E
W	0328	0627	3.9F
	0939	1237	4.5E
	1550	1859	4.3F
	2223		
17		0105	4.2E
Th	0405	0702	4.0F
	1016	1316	4.6E
	1627	1930	4.3F
	2300		
18		0143	4.2E
F	0441	0738	4.1F
	1052	1357	4.6E
	1703	2006	4.3F
	2335		
19		0222	4.3E
Sa	0518	0813	4.1F
	1129	1438	4.6E
	1740	2041	4.3F
20	0011	0303	4.2E
Su	0557	0852	4.1F
	1208	1519	4.5E
	1819	2120	4.3F
21	0048	0345	4.2E
M	0638	0935	4.1F
	1252	1604	4.4E
	1902	2201	4.2F
22	0129	0430	4.2E
Tu	0725	1023	4.0F
	1342	1655	4.2E
	1950	2250	4.0F
23	0216	0523	4.1E
W	0818	1116	3.9F
	1442	1749	4.1E
	2044	2343	3.9F
24	0310	0620	4.1E
Th	0918	1219	3.9F
	1551	1848	4.0E
	2145		
25		0045	3.8F
F	0411	0718	4.2E
	1024	1326	3.9F
	1704	1954	3.9E
	2252		
26		0154	3.8F
Sa	0516	0822	4.3E
	1132	1439	4.1F
	1813	2058	4.0E
27	0000	0302	3.9F
Su	0619	0923	4.5E
	1237	1550	4.3F
	1917	2159	4.2E
28	0104	0406	4.1F
M	0719	1022	4.7E
	1337	1651	4.5F
	2014	2257	4.3E
29	0203	0504	4.3F
Tu	0814	1117	4.9E
	1432	1745	4.7F
	2106	2349	4.6E
30	0256	0558	4.5F
W	0907	1207	5.1E
	1523	1834	4.9F
	2155		
31		0039	4.7E
Th	0345	0647	4.6F
	0957	1258	5.1E
	1611	1921	4.9F
	2241		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0126	4.8E
F	0432	0733	4.6F
	1045	1344	5.1E
	1658	2006	4.8F
	2326		
2		0213	4.8E
Sa	0518	0821	4.6F
	1133	1430	5.0E
	1743	2047	4.7F
3	0010	0258	4.7E
Su	0603	0903	4.4F
	1221	1516	4.7E
	1828	2130	4.4F
4	0054	0344	4.5E
M	0650	0951	4.2F
	1311	1605	4.5E
	1913	2214	4.2F
5	0140	0430	4.3E
Tu	0738	1039	4.0F
	1404	1653	4.1E
	2001	2302	3.9F
6	0229	0521	4.1E
W	0830	1130	3.7F
	1503	1747	3.8E
	2053	2353	3.6F
7	0322	0612	3.9E
Th	0928	1232	3.5F
	1606	1843	3.6E
	2152		
8		0052	3.3F
F	0420	0711	3.8E
	1031	1345	3.4F
	1711	1944	3.4E
	2255		
9		0203	3.2F
Sa	0519	0810	3.8E
	1133	1454	3.5F
	1812	2045	3.5E
	2357		
10		0310	3.3F
Su	0616	0908	3.9E
	1231	1556	3.6F
	1907	2142	3.6E
11	0053	0403	3.4F
M	0708	1002	4.0E
	1322	1647	3.8F
	1955	2232	3.8E
12	0142	0448	3.6F
Tu	0755	1047	4.2E
	1407	1726	4.0F
	2039	2317	4.0E
13	0225	0529	3.8F
W	0837	1132	4.4E
	1447	1759	4.2F
	2118	2358	4.2E
14	0303	0605	4.0F
Th	0916	1214	4.6E
	1525	1830	4.3F
	2154		
15		0037	4.3E
F	0339	0638	4.2F
	0953	1253	4.7E
	1601	1904	4.4F
	2229		
16		0115	4.4E
Sa	0415	0714	4.3F
	1030	1332	4.7E
	1637	1937	4.5F
	2303		
17		0156	4.5E
Su	0451	0749	4.4F
	1107	1414	4.7E
	1714	2014	4.5F
	2338		
18		0235	4.5E
M	0530	0830	4.4F
	1147	1455	4.6E
	1754	2053	4.4F
19	0014	0316	4.5E
Tu	0612	0911	4.3F
	1232	1540	4.5E
	1836	2135	4.3F
20	0055	0401	4.4E
W	0659	1000	4.2F
	1324	1629	4.3E
	1925	2224	4.1F
21	0143	0455	4.3E
Th	0752	1055	4.1F
	1424	1724	4.1E
	2020	2319	3.9F
22	0239	0552	4.2E
F	0854	1157	4.0F
	1535	1828	3.9E
	2125		
23		0022	3.7F
Sa	0346	0655	4.2E
	1003	1310	3.9F
	1650	1935	3.9E
	2236		
24		0134	3.7F
Su	0457	0801	4.3E
	1115	1428	4.0F
	1801	2042	4.0E
	2348		
25		0251	3.8F
M	0605	0905	4.4E
	1223	1540	4.3F
	1904	2145	4.2E
26	0053	0359	4.0F
Tu	0707	1006	4.6E
	1324	1641	4.5F
	1959	2241	4.4E
27	0150	0457	4.3F
W	0803	1101	4.8E
	1418	1734	4.7F
	2048	2333	4.6E
28	0241	0546	4.5F
Th	0854	1152	5.0E
	1507	1819	4.8F
	2134		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0020	4.7E
F	0327	0633	4.6F
	0942	1238	5.0E
	1552	1901	4.8F
	2217		
2		0103	4.8E
Sa	0411	0715	4.6F
	1028	1323	5.0E
	1635	1940	4.7F
	2257		
3		0146	4.8E
Su	0453	0756	4.6F
	1113	1405	4.8E
	1716	2018	4.5F
	2337		
4		0227	4.7E
M	0534	0837	4.5F
	1158	1450	4.6E
	1757	2056	4.3F
5	0017	0309	4.5E
Tu	0617	0919	4.3F
	1244	1533	4.3E
	1839	2136	4.0F
6	0059	0354	4.3E
W	0701	1000	4.0F
	1333	1620	4.0E
	1923	2217	3.7F
7	0144	0442	4.1E
Th	0749	1049	3.7F
	1427	1711	3.7E
	2012	2308	3.4F
8	0235	0535	3.9E
F	0844	1147	3.5F
	1528	1807	3.5E
	2109		
9		0003	3.2F
Sa	0335	0632	3.7E
	0946	1254	3.4F
	1633	1908	3.4E
	2214		
10		0113	3.1F
Su	0438	0732	3.7E
	1050	1406	3.4F
	1736	2010	3.4E
	2320		
11		0223	3.2F
M	0540	0832	3.8E
	1152	1513	3.5F
	1832	2108	3.6E
12	0019	0324	3.4F
Tu	0635	0927	4.0E
	1245	1606	3.8F
	1921	2159	3.8E
13	0109	0416	3.6F
W	0724	1016	4.2E
	1332	1647	4.0F
	2004	2246	4.0E
14	0152	0457	3.9F
Th	0807	1101	4.4E
	1414	1722	4.2F
	2043	2326	4.3E
15	0232	0533	4.1F
F	0848	1145	4.6E
	1453	1758	4.4F
	2120		
16		0008	4.5E
Sa	0310	0611	4.3F
	0927	1223	4.7E
	1531	1832	4.5F
	2155		
17		0046	4.6E
Su	0347	0647	4.5F
	1006	1304	4.8E
	1609	1909	4.5F
	2230		
18		0125	4.7E
M	0425	0726	4.6F
	1046	1347	4.8E
	1648	1946	4.5F
	2306		
19		0207	4.7E
Tu	0506	0807	4.6F
	1130	1430	4.7E
	1730	2027	4.4F
	2345		
20		0253	4.7E
W	0550	0852	4.5F
	1218	1519	4.5E
	1816	2112	4.3F
21	0029	0339	4.6E
Th	0639	0944	4.4F
	1312	1611	4.3E
	1907	2201	4.1F
22	0120	0432	4.5E
F	0735	1039	4.2F
	1415	1708	4.1E
	2005	2258	3.8F
23	0220	0531	4.3E
Sa	0838	1144	4.1F
	1526	1813	3.9E
	2113		
24		0008	3.7F
Su	0329	0637	4.2E
	0948	1300	4.0F
	1638	1919	3.9E
	2226		
25		0125	3.6F
M	0443	0743	4.3E
	1100	1420	4.1F
	1745	2025	4.0E
	2337		
26		0242	3.8F
Tu	0551	0848	4.4E
	1207	1527	4.3F
	1845	2127	4.2E
27	0040	0349	4.0F
W	0653	0950	4.6E
	1306	1625	4.4F
	1938	2223	4.4E
28	0134	0446	4.3F
Th	0748	1043	4.7E
	1359	1714	4.6F
	2025	2312	4.6E
29	0223	0533	4.5F
F	0838	1132	4.8E
	1446	1757	4.6F
	2108	2356	4.7E
30	0307	0616	4.6F
Sa	0925	1217	4.8E
	1530	1836	4.6F
	2149		
31		0037	4.7E
Su	0348	0653	4.6F
	1010	1300	4.7E
	1610	1913	4.5F
	2227		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0117	4.7E
M	0428	0731	4.5F
	1053	1340	4.6E
	1649	1949	4.3F
	2305		
2		0158	4.6E
Tu	0507	0811	4.4F
	1135	1422	4.4E
	1727	2024	4.1F
	2342		
3		0240	4.5E
W	0546	0848	4.2F
	1219	1505	4.2E
	1807	2101	3.9F
4	0021	0322	4.3E
Th	0628	0929	4.0F
	1305	1551	3.9E
	1849	2144	3.7F
5	0104	0407	4.1E
F	0714	1017	3.8F
	1356	1639	3.7E
	1937	2230	3.4F
6	0153	0458	3.9E
Sa	0805	1108	3.6F
	1453	1732	3.5E
	2032	2325	3.2F
7	0251	0554	3.7E
Su	0903	1209	3.5F
	1554	1832	3.4E
	2134		
8		0028	3.1F
M	0355	0653	3.7E
	1005	1314	3.4F
	1655	1932	3.5E
	2238		
9		0133	3.2F
Tu	0458	0752	3.8E
	1106	1417	3.6F
	1750	2028	3.6E
	2337		
10		0236	3.4F
W	0556	0848	3.9E
	1201	1513	3.8F
	1839	2121	3.9E
11	0029	0330	3.6F
Th	0647	0939	4.1E
	1251	1601	4.0F
	1923	2209	4.1E
12	0115	0416	3.9F
F	0733	1025	4.4E
	1336	1641	4.2F
	2003	2251	4.4E
13	0157	0500	4.2F
Sa	0817	1113	4.5E
	1418	1720	4.3F
	2041	2333	4.6E
14	0238	0539	4.4F
Su	0900	1156	4.7E
	1500	1801	4.5F
	2119		
15		0016	4.7E
M	0319	0621	4.6F
	0943	1239	4.7E
	1542	1842	4.5F
	2157		
16		0059	4.8E
Tu	0401	0704	4.7F
	1028	1324	4.7E
	1625	1923	4.5F
	2238		
17		0142	4.9E
W	0445	0749	4.7F
	1116	1410	4.7E
	1710	2006	4.4F
	2321		
18		0231	4.8E
Th	0533	0838	4.7F
	1208	1503	4.5E
	1800	2055	4.3F
19	0009	0322	4.7E
F	0625	0929	4.5F
	1305	1554	4.3E
	1854	2149	4.1F
20	0104	0417	4.6E
Sa	0723	1030	4.4F
	1407	1655	4.2E
	1955	2250	3.9F
21	0207	0515	4.5E
Su	0826	1134	4.2F
	1514	1756	4.0E
	2103	2359	3.7F
22	0316	0619	4.3E
M	0934	1248	4.1F
	1621	1903	4.0E
	2213		
23		0112	3.7F
Tu	0427	0724	4.3E
	1042	1401	4.2F
	1723	2006	4.1E
	2320		
24		0229	3.9F
W	0534	0828	4.4E
	1146	1505	4.2F
	1820	2105	4.2E
25	0020	0332	4.1F
Th	0635	0927	4.4E
	1244	1606	4.3F
	1911	2159	4.4E
26	0113	0426	4.2F
F	0730	1018	4.5E
	1336	1651	4.4F
	1957	2246	4.5E
27	0200	0513	4.4F
Sa	0821	1109	4.5E
	1422	1733	4.3F
	2040	2329	4.6E
28	0244	0556	4.4F
Su	0907	1155	4.5E
	1505	1809	4.3F
	2120		
29		0011	4.6E
M	0325	0637	4.4F
	0951	1236	4.4E
	1544	1846	4.2F
	2158		
30		0051	4.6E
Tu	0404	0710	4.4F
	1033	1317	4.3E
	1623	1921	4.1F
	2235		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1991

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0132	4.5E
W	0442	0746	4.3F
	1115	1358	4.2E
	1700	1956	3.9F
	2312		
2		0212	4.4E
Th	0521	0824	4.2F
	1157	1440	4.0E
	1739	2031	3.8F
	2350		
3		0256	4.3E
F	0601	0904	4.0F
	1241	1525	3.9E
	1821	2112	3.6F
4	0032	0341	4.1E
Sa	0645	0947	3.9F
	1328	1610	3.7E
	1907	2157	3.5F
5	0119	0428	4.0E
Su	0733	1037	3.7F
	1420	1702	3.6E
	1959	2250	3.3F
6	0212	0521	3.9E
M	0825	1130	3.6F
	1514	1756	3.6E
	2055	2347	3.3F
7	0311	0614	3.8E
Tu	0921	1225	3.6F
	1609	1852	3.6E
	2154		
8		0049	3.3F
W	0412	0712	3.8E
	1018	1325	3.7F
	1702	1946	3.7E
	2251		
9		0146	3.5F
Th	0511	0807	3.9E
	1113	1420	3.8F
	1752	2039	3.9E
	2344		
10		0244	3.7F
F	0606	0858	4.1E
	1206	1511	3.9F
	1838	2128	4.2E
11	0034	0334	4.0F
Sa	0658	0950	4.3E
	1255	1558	4.1F
	1921	2216	4.4E
12	0121	0425	4.2F
Su	0747	1040	4.4E
	1343	1644	4.3F
	2004	2303	4.6E
13	0207	0509	4.5F
M	0835	1128	4.6E
	1430	1730	4.4F
	2046	2349	4.8E
14	0253	0558	4.6F
Tu	0924	1217	4.7E
	1516	1813	4.5F
	2129		
15		0034	4.9E
W	0340	0646	4.8F
	1013	1304	4.7E
	1604	1901	4.5F
	2215		
16		0123	5.0E
Th	0429	0734	4.8F
	1105	1355	4.6E
	1654	1950	4.4F
	2303		
17		0211	5.0E
F	0520	0825	4.8F
	1158	1446	4.6E
	1747	2043	4.3F
	2355		
18		0306	4.9E
Sa	0613	0919	4.7F
	1255	1541	4.4E
	1843	2138	4.2F
19	0052	0400	4.8E
Su	0710	1020	4.5F
	1354	1639	4.3E
	1943	2239	4.0F
20	0154	0458	4.6E
M	0811	1121	4.4F
	1455	1737	4.2E
	2047	2343	3.9F
21	0300	0600	4.4E
Tu	0914	1228	4.2F
	1556	1838	4.2E
	2152		
22		0055	3.9F
W	0407	0701	4.3E
	1017	1335	4.2F
	1655	1940	4.2E
	2255		
23		0204	3.9F
Th	0512	0803	4.3E
	1119	1438	4.1F
	1750	2035	4.2E
	2354		
24		0308	4.0F
F	0613	0902	4.2E
	1217	1535	4.1F
	1841	2130	4.3E
25	0048	0403	4.1F
Sa	0709	0954	4.2E
	1309	1625	4.1F
	1928	2219	4.4E
26	0136	0454	4.2F
Su	0801	1045	4.2E
	1356	1707	4.1F
	2011	2304	4.4E
27	0221	0539	4.2F
M	0848	1131	4.2E
	1440	1745	4.0F
	2052	2346	4.5E
28	0303	0618	4.2F
Tu	0933	1213	4.2E
	1520	1821	3.9F
	2132		
29		0027	4.5E
W	0342	0654	4.2F
	1015	1254	4.1E
	1559	1857	3.9F
	2209		
30		0108	4.5E
Th	0421	0727	4.2F
	1056	1334	4.1E
	1637	1933	3.8F
	2247		
31		0149	4.4E
F	0459	0803	4.1F
	1137	1415	4.0E
	1716	2010	3.8F
	2326		

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0231	4.3E
Sa	0538	0840	4.1F
	1218	1459	3.9E
	1756	2051	3.7F
2	0006	0312	4.2E
Su	0619	0923	4.0F
	1301	1544	3.8E
	1840	2132	3.6F
3	0049	0401	4.1E
M	0703	1004	3.9F
	1345	1629	3.8E
	1926	2220	3.5F
4	0137	0448	4.0E
Tu	0749	1051	3.8F
	1433	1720	3.8E
	2016	2309	3.5F
5	0229	0538	4.0E
W	0839	1142	3.8F
	1522	1811	3.8E
	2109		
6		0002	3.5F
Th	0326	0633	3.9E
	0932	1238	3.8F
	1612	1905	3.9E
	2205		
7		0101	3.6F
F	0426	0726	4.0E
	1027	1329	3.8F
	1702	1958	4.0E
	2301		
8		0200	3.8F
Sa	0526	0823	4.0E
	1123	1424	3.9F
	1752	2049	4.2E
	2355		
9		0256	4.0F
Su	0624	0917	4.2E
	1218	1519	4.0F
	1841	2142	4.4E
10	0049	0353	4.2F
M	0720	1011	4.3E
	1311	1610	4.2F
	1930	2234	4.7E
11	0141	0448	4.5F
Tu	0814	1104	4.5E
	1404	1704	4.3F
	2019	2325	4.8E
12	0232	0539	4.7F
W	0907	1154	4.6E
	1456	1753	4.4F
	2108		
13		0014	5.0E
Th	0324	0631	4.8F
	1000	1247	4.6E
	1548	1846	4.5F
	2158		
14		0105	5.1E
F	0415	0724	4.9F
	1052	1339	4.7E
	1640	1937	4.5F
	2249		
15		0156	5.1E
Sa	0507	0815	4.9F
	1145	1430	4.6E
	1733	2029	4.4F
	2342		
16		0247	5.0E
Su	0600	0909	4.8F
	1238	1523	4.6E
	1827	2125	4.3F
17	0038	0341	4.9E
M	0654	1001	4.6F
	1333	1617	4.5E
	1924	2223	4.2F
18	0137	0437	4.7E
Tu	0750	1058	4.5F
	1428	1714	4.4E
	2022	2321	4.1F
19	0238	0534	4.5E
W	0848	1159	4.3F
	1524	1809	4.3E
	2123		
20		0027	3.9F
Th	0342	0633	4.3E
	0948	1300	4.1F
	1621	1905	4.2E
	2224		
21		0134	3.9F
F	0446	0733	4.1E
	1047	1404	3.9F
	1715	2004	4.2E
	2323		
22		0241	3.9F
Sa	0549	0832	4.0E
	1146	1501	3.8F
	1808	2057	4.2E
23	0020	0340	3.9F
Su	0647	0927	3.9E
	1240	1556	3.8F
	1858	2149	4.2E
24	0111	0432	4.0F
M	0740	1019	3.9E
	1330	1641	3.8F
	1944	2238	4.3E
25	0158	0519	4.1F
Tu	0829	1105	3.9E
	1416	1724	3.8F
	2028	2323	4.3E
26	0241	0600	4.1F
W	0914	1151	4.0E
	1458	1802	3.8F
	?109		
27		0004	4.4E
Th	0322	0635	4.1F
	0956	1232	4.0E
	1537	1836	3.8F
	2148		
28		0045	4.4E
F	0400	0710	4.2F
	1035	1313	4.0E
	1615	1913	3.8F
	2226		
29		0127	4.4E
Sa	0438	0745	4.2F
	1114	1353	4.0E
	1653	1948	3.8F
	2304		
30		0206	4.4E
Su	0515	0819	4.2F
	1152	1434	4.0E
	1731	2027	3.8F
	2342		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0248	4.4E
M	0553	0856	4.1F
	1230	1515	4.0E
	1811	2104	3.8F
2	0021	0329	4.3E
Tu	0633	0935	4.1F
	1309	1600	4.0E
	1853	2149	3.8F
3	0104	0416	4.2E
W	0715	1017	4.0F
	1350	1645	4.0E
	1938	2232	3.8F
4	0152	0505	4.1E
Th	0801	1102	3.9F
	1435	1733	3.9E
	2028	2325	3.7F
5	0246	0556	4.0E
F	0851	1153	3.9F
	1523	1826	4.0E
	2123		
6		0019	3.7F
Sa	0347	0651	4.0E
	0946	1248	3.8F
	1616	1919	4.1E
	2222		
7		0120	3.8F
Su	0453	0747	4.0E
	1046	1345	3.8F
	1712	2018	4.2E
	2322		
8		0227	4.0F
M	0558	0848	4.0E
	1147	1447	3.9F
	1809	2114	4.4E
9	0023	0328	4.2F
Tu	0700	0947	4.2E
	1247	1546	4.1F
	1904	2209	4.6E
10	0121	0428	4.4F
W	0758	1043	4.4E
	1345	1644	4.2F
	1959	2304	4.9E
11	0216	0525	4.7F
Th	0853	1139	4.5E
	1440	1739	4.4F
	2051	2357	5.0E
12	0309	0618	4.8F
F	0945	1230	4.7E
	1533	1832	4.5F
	2143		
13		0048	5.1E
Sa	0401	0710	4.9F
	1036	1321	4.7E
	1624	1924	4.6F
	2235		
14		0139	5.1E
Su	0451	0758	4.9F
	1125	1411	4.8E
	1715	2014	4.6F
	2327		
15		0229	5.1E
M	0542	0850	4.8F
	1215	1500	4.7E
	1806	2106	4.5F
16	0020	0320	4.9E
Tu	0632	0939	4.7F
	1304	1551	4.6E
	1858	2157	4.3F
17	0115	0413	4.7E
W	0724	1030	4.4F
	1355	1642	4.4E
	1952	2253	4.1F
18	0213	0505	4.4E
Th	0817	1124	4.2F
	1448	1735	4.3E
	2048	2354	3.9F
19	0314	0603	4.1E
F	0913	1220	3.9F
	1542	1831	4.1E
	2148		
20		0055	3.8F
Sa	0418	0659	3.9E
	1012	1321	3.7F
	1639	1928	4.0E
	2249		
21		0207	3.7F
Su	0521	0801	3.7E
	1112	1426	3.5F
	1735	2026	4.0E
	2349		
22		0318	3.7F
M	0622	0858	3.7E
	1211	1527	3.5F
	1828	2120	4.0E
23	0044	0409	3.8F
Tu	0717	0952	3.7E
	1304	1617	3.6F
	1918	2211	4.1E
24	0134	0500	3.9F
W	0806	1041	3.8E
	1352	1700	3.7F
	2004	2300	4.2E
25	0219	0539	4.0F
Th	0850	1128	3.9E
	1435	1741	3.8F
	2046	2342	4.4E
26	0259	0614	4.1F
F	0931	1208	4.0E
	1515	1816	3.9F
	2126		
27		0021	4.5E
Sa	0337	0648	4.2F
	1009	1248	4.1E
	1552	1851	4.0F
	2204		
28		0102	4.5E
Su	0414	0720	4.2F
	1045	1327	4.2E
	1628	1925	4.0F
	2240		
29		0142	4.5E
M	0449	0751	4.3F
	1120	1405	4.2E
	1703	1958	4.1F
	2316		
30		0221	4.5E
Tu	0525	0826	4.3F
	1155	1445	4.2E
	1740	2037	4.1F
	2354		
31		0302	4.4E
W	0603	0903	4.2F
	1230	1526	4.2E
	1820	2116	4.0F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0035	0345	4.3E
Th	0643	0942	4.1F
	1308	1611	4.1E
	1903	2201	4.0F
2	0121	0430	4.2E
F	0727	1027	4.0F
	1351	1658	4.1E
	1952	2251	3.9F
3	0216	0524	4.0E
Sa	0817	1116	3.9F
	1441	1751	4.1E
	2048	2348	3.9F
4	0319	0621	3.9E
Su	0914	1211	3.8F
	1538	1848	4.1E
	2151		
5		0053	3.9F
M	0429	0724	3.9E
	1018	1319	3.7F
	1641	1950	4.2E
	2257		
6		0203	4.0F
Tu	0540	0825	3.9E
	1126	1426	3.8F
	1746	2052	4.4E
7	0003	0314	4.2F
W	0645	0927	4.1E
	1231	1531	4.0F
	1847	2150	4.6E
8	0105	0416	4.4F
Th	0744	1025	4.3E
	1331	1632	4.2F
	1944	2248	4.8E
9	0202	0513	4.7F
F	0837	1120	4.6E
	1426	1729	4.4F
	2038	2340	5.0E
10	0254	0605	4.8F
Sa	0927	1211	4.7E
	1517	1818	4.6F
	2130		
11		0031	5.1E
Su	0344	0654	4.9F
	1014	1301	4.8E
	1606	1908	4.7F
	2220		
12		0119	5.1E
M	0432	0739	4.9F
	1100	1347	4.8E
	1653	1956	4.7F
	2309		
13		0208	5.1E
Tu	0519	0824	4.8F
	1146	1434	4.8E
	1740	2043	4.6F
	2359		
14		0256	4.9E
W	0606	0909	4.6F
	1231	1522	4.6E
	1828	2128	4.4F
15	0051	0345	4.6E
Th	0653	0954	4.3F
	1318	1608	4.5E
	1918	2219	4.2F
16	0145	0433	4.3E
F	0743	1042	4.0F
	1408	1659	4.2E
	2011	2314	3.9F
17	0244	0527	4.0E
Sa	0836	1138	3.7F
	1501	1753	4.0E
	2109		
18		0015	3.7F
Su	0347	0625	3.7E
	0935	1237	3.4F
	1600	1851	3.9E
	2211		
19		0128	3.5F
M	0451	0725	3.5E
	1038	1347	3.3F
	1700	1952	3.8E
	2315		
20		0239	3.6F
Tu	0553	0828	3.5E
	1140	1455	3.3F
	1758	2049	3.9E
21	0013	0343	3.7F
W	0649	0924	3.6E
	1237	1552	3.5F
	1851	2143	4.0E
22	0105	0432	3.9F
Th	0738	1016	3.8E
	1326	1639	3.6F
	1938	2232	4.2E
23	0151	0513	4.0F
F	0821	1101	4.0E
	1409	1716	3.8F
	2022	2315	4.4E
24	0231	0546	4.2F
Sa	0901	1141	4.1E
	1448	1751	4.0F
	2101	2355	4.5E
25	0309	0617	4.3F
Su	0937	1218	4.3E
	1524	1823	4.1F
	2139		
26		0036	4.6E
M	0345	0648	4.3F
	1012	1257	4.4E
	1559	1858	4.2F
	2215		
27		0113	4.6E
Tu	0420	0720	4.4F
	1045	1335	4.4E
	1634	1932	4.3F
	2251		
28		0154	4.6E
W	0456	0755	4.3F
	1119	1414	4.4E
	1710	2009	4.3F
	2329		
29		0234	4.5E
Th	0533	0830	4.3F
	1153	1455	4.4E
	1750	2050	4.3F
30	0011	0317	4.4E
F	0614	0911	4.2F
	1231	1540	4.3E
	1834	2135	4.2F
31	0059	0404	4.2E
Sa	0659	0954	4.0F
	1315	1629	4.2E
	1924	2226	4.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1991

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0156	0459	4.0E	16	0314	0552	3.5E
Su	0751	1046	3.8F	M	0857	1153	3.2F
	1407	1723	4.2E		1519	1815	3.8E
	2023	2327	4.0F		2131		
2	0302	0558	3.9E	17		0041	3.5F
M	0852	1147	3.7F	Tu	0418	0652	3.4E
	1510	1824	4.1E		1001	1302	3.1F
	2129				1622	1916	3.7E
					2235		
3		0033	3.9F	18		0157	3.5F
Tu	0416	0702	3.8E	W	0520	0751	3.4E
	1001	1258	3.6F		1106	1416	3.2F
	1621	1929	4.2E		1724	2015	3.8E
	2239				2336		
4		0148	4.0F	19	0302		3.6F
W	0527	0809	3.9E	Th	0615	0850	3.6E
	1113	1410	3.7F		1204	1517	3.4F
	1730	2034	4.4E		1819	2110	4.0E
	2348						
5		0302	4.2F	20	0029	0353	3.8F
Th	0631	0911	4.1E	F	0703	0942	3.8E
	1219	1521	4.0F		1254	1603	3.6F
	1834	2134	4.6E		1908	2159	4.2E
6	0050	0406	4.4F	21	0116	0432	4.0F
F	0727	1011	4.4E	Sa	0746	1028	4.0E
	1318	1622	4.2F		1337	1644	3.9F
	1932	2232	4.8E		1952	2244	4.3E
7	0146	0501	4.6F	22	0158	0507	4.1F
Sa	0818	1104	4.6E	Su	0825	1109	4.2E
	1411	1716	4.5F		1416	1720	4.1F
	2025	2323	5.0E		2033	2325	4.5E
8	0237	0548	4.8F	23	0236	0542	4.3F
Su	0905	1151	4.8E	M	0901	1148	4.4E
	1459	1804	4.7F		1453	1754	4.3F
	2115				2111		
9		0012	5.1E	24		0006	4.6E
M	0325	0633	4.8F	Tu	0313	0614	4.4F
	0949	1238	4.9E		0936	1227	4.5E
	1545	1850	4.7F		1529	1830	4.4F
	2203				2149		
10		0058	5.0E	25		0047	4.7E
Tu	0410	0715	4.8F	W	0350	0649	4.4F
	1032	1321	4.9E		1009	1304	4.6E
	1629	1933	4.7F		1605	1905	4.5F
	2250				2228		
11		0144	4.9E	26		0126	4.6E
W	0454	0755	4.6F	Th	0427	0725	4.4F
	1114	1405	4.8E		1044	1345	4.6E
	1713	2016	4.6F		1644	1944	4.5F
	2338				2308		
12		0230	4.7E	27		0209	4.6E
Th	0537	0837	4.4F	F	0507	0804	4.3F
	1156	1450	4.6E		1120	1426	4.6E
	1757	2059	4.4F		1725	2027	4.5F
					2354		
13	0026	0315	4.4E	28		0254	4.4E
F	0621	0917	4.1F	Sa	0550	0847	4.2F
	1240	1536	4.4E		1201	1512	4.5E
	1844	2146	4.1F		1812	2114	4.4F
14	0117	0402	4.1E	29	0045	0343	4.2E
Sa	0707	1002	3.8F	Su	0638	0934	4.0F
	1326	1623	4.2E		1249	1605	4.4E
	1934	2236	3.9F		1905	2208	4.2F
15	0213	0455	3.8E	30	0144	0439	4.1E
Su	0758	1055	3.5F	M	0734	1029	3.8F
	1419	1718	3.9E		1345	1702	4.3E
	2029	2335	3.6F		2005	2311	4.1F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0252	0540	3.9E	16	0340	0615	3.4E
Tu	0838	1132	3.7F	W	0921	1215	3.1F
	1453	1803	4.2E		1541	1836	3.7E
	2113				2150		
2		0022	4.0F	17		0104	3.5F
W	0404	0646	3.9E	Th	0439	0715	3.5E
	0950	1248	3.6F		1025	1323	3.2F
	1606	1911	4.3E		1643	1935	3.8E
	2224				2250		
3		0138	4.1F	18		0207	3.6F
Th	0511	0753	4.0E	F	0533	0810	3.6E
	1101	1403	3.7F		1123	1425	3.4F
	1717	2016	4.4E		1741	2031	3.9E
	2332				2345		
4		0248	4.2F	19		0302	3.7F
F	0612	0855	4.2E	Sa	0622	0902	3.8E
	1206	1512	4.0F		1214	1518	3.6F
	1821	2118	4.6E		1832	2121	4.1E
5	0033	0349	4.4F	20	0034	0347	3.9F
Sa	0706	0952	4.4E	Su	0706	0950	4.1E
	1303	1609	4.3F		1259	1603	3.9F
	1918	2214	4.7E		1918	2209	4.3E
6	0128	0444	4.6F	21	0119	0427	4.1F
Su	0755	1043	4.6E	M	0746	1035	4.3E
	1354	1701	4.5F		1341	1644	4.1F
	2011	2303	4.8E		2002	2253	4.4E
7	0218	0528	4.6F	22	0200	0503	4.2F
M	0840	1130	4.8E	Tu	0823	1113	4.5E
	1440	1749	4.6F		1420	1723	4.3F
	2100	2352	4.9E		2043	2336	4.6E
8	0304	0611	4.6F	23	0240	0541	4.3F
Tu	0923	1214	4.8E	W	0859	1155	4.6E
	1524	1830	4.7F		1459	1801	4.5F
	2147				2125		
9		0037	4.8E	24		0018	4.6E
W	0347	0651	4.5F	Th	0320	0619	4.4F
	1004	1255	4.8E		0936	1236	4.7E
	1606	1911	4.6F		1539	1842	4.6F
	2232				2207		
10		0120	4.7E	25		0101	4.6E
Th	0429	0729	4.4F	F	0401	0700	4.4F
	1043	1338	4.7E		1014	1319	4.8E
	1648	1952	4.5F		1622	1924	4.6F
	2317				2252		
11		0205	4.5E	26		0146	4.6E
F	0509	0805	4.2F	Sa	0445	0741	4.4F
	1123	1420	4.6E		1055	1406	4.8E
	1729	2033	4.3F		1707	2011	4.6F
					2341		
12	0003	0247	4.2E	27		0236	4.5E
Sa	0551	0846	3.9F	Su	0532	0827	4.2F
	1204	1503	4.4E		1140	1453	4.7E
	1813	2116	4.1F		1756	2100	4.5F
13	0051	0333	4.0E	28	0035	0327	4.3E
Su	0635	0929	3.7F	M	0623	0919	4.1F
	1248	1551	4.2E		1232	1546	4.6E
	1900	2201	3.9F		1851	2157	4.4F
14	0143	0424	3.7E	29	0135	0424	4.2E
M	0723	1016	3.4F	Tu	0721	1017	3.9F
	1339	1642	3.9E		1331	1644	4.5E
	1951	2256	3.6F		1952	2258	4.2F
15	0240	0518	3.5E	30	0240	0524	4.0E
Tu	0819	1111	3.2F	W	0827	1122	3.8F
	1437	1737	3.8E		1439	1747	4.4E
	2049	2357	3.5F		2058		
				31		0009	4.2F
				Th	0346	0628	4.0E
					0936	1235	3.7F
					1551	1851	4.3E
					2206		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0122	4.2F
F	0450	0732	4.1E
	1045	1348	3.8F
	1701	1956	4.4E
	2312		
2		0229	4.2F
Sa	0548	0833	4.3E
	1148	1455	4.0F
	1804	2056	4.4E
3	0012	0331	4.3F
Su	0642	0931	4.4E
	1244	1556	4.2F
	1902	2153	4.5E
4	0107	0422	4.4F
M	0730	1019	4.6E
	1334	1648	4.4F
	1955	2244	4.6E
5	0157	0507	4.4F
Tu	0815	1106	4.7E
	1421	1733	4.5F
	2045	2333	4.6E
6	0242	0546	4.4F
W	0857	1151	4.7E
	1504	1814	4.5F
	2131		
7		0016	4.5E
Th	0325	0627	4.3F
	0937	1231	4.7E
	1545	1855	4.5F
	2215		
8		0059	4.4E
F	0405	0703	4.2F
	1016	1312	4.6E
	1626	1931	4.4F
	2259		
9		0140	4.3E
Sa	0444	0739	4.0F
	1055	1355	4.5E
	1706	2012	4.2F
	2342		
10		0223	4.1E
Su	0524	0818	3.8F
	1135	1437	4.4E
	1747	2051	4.1F
11	0027	0307	3.9E
M	0606	0859	3.7F
	1217	1522	4.2E
	1830	2134	3.9F
12	0114	0355	3.8E
Tu	0652	0944	3.5F
	1303	1611	4.0E
	1917	2220	3.8F
13	0204	0445	3.6E
W	0743	1033	3.3F
	1356	1702	3.9E
	2008	2314	3.6F
14	0257	0538	3.6E
Th	0839	1130	3.3F
	1455	1757	3.8E
	2103		
15		0010	3.6F
F	0352	0632	3.6E
	0937	1230	3.3F
	1556	1852	3.8E
	2200		
16		0107	3.6F
Sa	0445	0728	3.7E
	1035	1331	3.4F
	1655	1948	3.9E
	2255		
17		0203	3.7F
Su	0534	0820	3.9E
	1128	1429	3.6F
	1750	2042	4.0E
	2348		
18		0252	3.8F
M	0621	0910	4.1E
	1218	1520	3.8F
	1842	2131	4.1E
19	0037	0340	4.0F
Tu	0704	0956	4.3E
	1304	1606	4.1F
	1930	2219	4.3E
20	0124	0425	4.1F
W	0745	1043	4.5E
	1349	1651	4.3F
	2017	2308	4.4E
21	0209	0507	4.3F
Th	0826	1128	4.7E
	1433	1735	4.5F
	2104	2354	4.5E
22	0254	0552	4.4F
F	0907	1211	4.8E
	1518	1822	4.7F
	2151		
23		0040	4.6E
Sa	0340	0637	4.4F
	0951	1258	4.9E
	1604	1909	4.7F
	2239		
24		0128	4.6E
Su	0428	0725	4.4F
	1036	1347	4.9E
	1653	1958	4.7F
	2330		
25		0219	4.5E
M	0518	0814	4.3F
	1125	1437	4.9E
	1744	2051	4.7F
26	0024	0312	4.5E
Tu	0611	0907	4.2F
	1219	1530	4.8E
	1838	2145	4.6F
27	0121	0407	4.4E
W	0708	1002	4.1F
	1319	1627	4.7E
	1937	2245	4.4F
28	0220	0505	4.3E
Th	0810	1105	4.0F
	1424	1727	4.5E
	2038	2350	4.3F
29	0321	0606	4.2E
F	0915	1215	3.9F
	1532	1828	4.4E
	2142		
30		0056	4.2F
Sa	0422	0706	4.2E
	1021	1325	3.9F
	1640	1932	4.3E
	2246		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0201	4.1F
Su	0519	0807	4.3E
	1123	1435	4.0F
	1745	2033	4.3E
	2347		
2		0304	4.1F
M	0613	0905	4.3E
	1221	1538	4.1F
	1844	2130	4.3E
3	0044	0359	4.1F
Tu	0704	0956	4.4E
	1314	1631	4.2F
	1939	2222	4.3E
4	0135	0447	4.1F
W	0750	1043	4.5E
	1402	1720	4.3F
	2030	2311	4.2E
5	0222	0530	4.1F
Th	0834	1129	4.6E
	1446	1801	4.3F
	2116	2355	4.2E
6	0304	0609	4.0F
F	0915	1212	4.6E
	1527	1840	4.3F
	2200		
7		0038	4.2E
Sa	0345	0644	4.0F
	0954	1253	4.5E
	1607	1918	4.3F
	2241		
8		0120	4.1E
Su	0423	0720	3.9F
	1033	1332	4.5E
	1645	1953	4.2F
	2322		
9		0200	4.1E
M	0502	0757	3.8F
	1111	1414	4.4E
	1724	2027	4.1F
10	0002	0243	4.0E
Tu	0541	0834	3.8F
	1151	1457	4.3E
	1804	2106	4.0F
11	0043	0325	3.9E
W	0623	0915	3.7F
	1233	1540	4.2E
	1845	2149	3.9F
12	0127	0410	3.8E
Th	0707	1000	3.6F
	1319	1627	4.1E
	1930	2230	3.8F
13	0212	0459	3.8E
F	0756	1046	3.5F
	1409	1716	4.0E
	2018	2321	3.7F
14	0300	0550	3.7E
Sa	0847	1141	3.5F
	1505	1810	3.9E
	2110		
15		0012	3.7F
Su	0351	0641	3.8E
	0943	1238	3.5F
	1605	1905	3.8E
	2204		
16		0106	3.7F
M	0442	0735	3.9E
	1039	1337	3.6F
	1706	2000	3.9E
	2300		
17		0201	3.7F
Tu	0532	0829	4.0E
	1135	1436	3.8F
	1805	2055	4.0E
	2356		
18		0258	3.9F
W	0622	0921	4.3E
	1229	1532	4.0F
	1901	2150	4.1E
19	0050	0350	4.0F
Th	0710	1012	4.5E
	1321	1625	4.3F
	1955	2242	4.3E
20	0142	0441	4.2F
F	0758	1101	4.7E
	1411	1716	4.5F
	2046	2333	4.5E
21	0233	0532	4.3F
Sa	0845	1151	4.9E
	1501	1807	4.7F
	2136		
22		0024	4.6E
Su	0323	0621	4.4F
	0933	1242	5.0E
	1550	1858	4.8F
	2226		
23		0113	4.7E
M	0413	0710	4.5F
	1022	1331	5.1E
	1640	1947	4.9F
	2316		
24		0203	4.7E
Tu	0504	0801	4.5F
	1113	1421	5.1E
	1731	2037	4.9F
25	0007	0254	4.7E
W	0556	0853	4.4F
	1207	1513	5.0E
	1823	2130	4.7F
26	0100	0346	4.6E
Th	0650	0948	4.3F
	1303	1607	4.8E
	1917	2223	4.6F
27	0154	0440	4.5E
F	0747	1045	4.2F
	1404	1703	4.6E
	2014	2322	4.3F
28	0250	0537	4.3E
Sa	0847	1150	4.0F
	1508	1803	4.4E
	2114		
29		0023	4.1F
Su	0348	0637	4.2E
	0950	1257	3.9F
	1615	1903	4.2E
	2216		
30		0128	3.9F
M	0446	0735	4.2E
	1054	1408	3.9F
	1722	2007	4.0E
	2319		
31		0236	3.8F
Tu	0543	0836	4.2E
	1155	1517	3.9F
	1824	2105	3.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0254	0610	1.9F
	0911	1200	2.0E
	1510	1844	2.3F
	2159		
2 W		0040	1.8E
	0347	0704	1.9F
	1004	1252	2.0E
	1603	1936	2.4F
	2250		
3 Th		0133	1.8E
	0440	0757	1.9F
	1057	1345	2.0E
	1656	2027	2.3F
	2341		
4 F		0224	1.8E
	0532	0850	2.0F
	1151	1439	1.9E
	1748	2121	2.3F
5 Sa	0032	0317	1.8E
	0625	0946	1.9F
	1246	1533	1.8E
	1842	2215	2.2F
6 Su	0124	0409	1.7E
	0719	1045	1.9F
	1344	1631	1.7E
	1938	2311	2.0F
7 M	0218	0507	1.7E
	0815	1144	1.9F
	1443	1732	1.6E
	2035		
8 Tu		0014	1.9F
	0312	0603	1.6E
	0912	1245	1.9F
	1544	1832	1.5E
	2135		
9 W		0111	1.8F
	0407	0702	1.6E
	1009	1345	1.9F
	1645	1935	1.4E
	2235		
10 Th		0210	1.8F
	0502	0759	1.6E
	1106	1444	1.9F
	1744	2037	1.4E
	2334		
11 F		0306	1.8F
	0556	0856	1.6E
	1159	1539	2.0F
	1838	2134	1.4E
12 Sa	0028	0359	1.8F
	0646	0947	1.6E
	1249	1624	2.1F
	1929	2223	1.5E
13 Su	0118	0446	1.8F
	0733	1030	1.7E
	1334	1711	2.1F
	2014	2306	1.5E
14 M	0203	0529	1.8F
	0816	1112	1.7E
	1415	1751	2.2F
	2055	2345	1.6E
15 Tu	0244	0606	1.8F
	0856	1147	1.8E
	1453	1828	2.2F
	2134		
16 W		0018	1.7E
	0321	0641	1.8F
	0935	1222	1.8E
	1529	1859	2.2F
	2211		
17 Th		0050	1.7E
	0357	0712	1.9F
	1013	1256	1.9E
	1604	1931	2.2F
	2247		
18 F		0125	1.8E
	0432	0742	1.9F
	1050	1333	1.9E
	1640	2000	2.2F
	2324		
19 Sa		0201	1.9E
	0508	0815	1.9F
	1130	1412	2.0E
	1718	2033	2.2F
20 Su	0002	0240	1.9E
	0546	0852	2.0F
	1212	1453	2.0E
	1758	2112	2.2F
21 M	0042	0321	1.9E
	0626	0932	2.0F
	1257	1538	1.9E
	1842	2153	2.1F
22 Tu	0126	0406	1.9E
	0711	1019	1.9F
	1348	1627	1.8E
	1930	2244	1.9F
23 W	0214	0455	1.8E
	0801	1112	1.9F
	1445	1721	1.6E
	2025	2333	1.8F
24 Th	0308	0548	1.7E
	0857	1211	1.8F
	1547	1818	1.5E
	2126		
25 F		0039	1.6F
	0406	0648	1.6E
	0959	1321	1.8F
	1653	1925	1.4E
	2233		
26 Sa		0148	1.5F
	0508	0749	1.6E
	1104	1438	1.8F
	1800	2035	1.4E
	2343		
27 Su		0304	1.6F
	0611	0856	1.6E
	1210	1550	1.9F
	1903	2142	1.5E
28 M	0050	0414	1.6F
	0712	1001	1.7E
	1312	1652	2.1F
	2002	2246	1.6E
29 Tu	0151	0515	1.8F
	0808	1059	1.8E
	1409	1747	2.3F
	2056	2341	1.7E
30 W	0246	0608	1.9F
	0902	1155	1.9E
	1503	1838	2.4F
	2146		
31 Th		0033	1.8E
	0337	0700	2.0F
	0953	1246	2.0E
	1553	1925	2.4F
	2233		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0120	1.9E
	0425	0747	2.1F
	1043	1334	2.0E
	1642	2012	2.4F
	2320		
2 Sa		0207	1.9E
	0511	0834	2.1F
	1133	1421	2.0E
	1729	2057	2.3F
3 Su	0006	0251	1.9E
	0558	0921	2.1F
	1223	1509	1.9E
	1817	2146	2.1F
4 M	0053	0337	1.8E
	0646	1012	2.0F
	1315	1559	1.7E
	1907	2234	2.0F
5 Tu	0141	0425	1.7E
	0736	1105	1.9F
	1410	1651	1.6E
	1959	2329	1.8F
6 W	0233	0519	1.6E
	0829	1203	1.8F
	1508	1749	1.4E
	2056		
7 Th		0030	1.7F
	0327	0615	1.5E
	0926	1306	1.8F
	1608	1853	1.3E
	2156		
8 F		0130	1.6F
	0423	0714	1.4E
	1024	1407	1.8F
	1708	1954	1.3E
	2256		
9 Sa		0231	1.6F
	0519	0815	1.5E
	1120	1503	1.9F
	1804	2057	1.3E
	2354		
10 Su		0326	1.6F
	0613	0911	1.5E
	1213	1554	2.0F
	1856	2150	1.4E
11 M	0047	0417	1.7F
	0703	0958	1.6E
	1302	1639	2.1F
	1943	2234	1.5E
12 Tu	0133	0458	1.8F
	0748	1043	1.7E
	1345	1722	2.2F
	2024	2315	1.6E
13 W	0214	0538	1.9F
	0829	1119	1.8E
	1424	1757	2.2F
	2103	2347	1.7E
14 Th	0251	0613	1.9F
	0908	1154	1.9E
	1501	1828	2.2F
	2139		
15 F		0019	1.8E
	0326	0641	2.0F
	0945	1229	2.0E
	1537	1859	2.3F
	2215		
16 Sa		0055	1.9E
	0400	0712	2.1F
	1023	1304	2.0E
	1612	1927	2.3F
	2250		
17 Su		0128	2.0E
	0435	0745	2.1F
	1102	1343	2.1E
	1650	2002	2.3F
	2328		
18 M		0207	2.0E
	0512	0820	2.1F
	1143	1427	2.0E
	1730	2041	2.2F
19 Tu	0008	0248	2.0E
	0553	0901	2.1F
	1229	1512	2.0E
	1814	2122	2.1F
20 W	0052	0333	1.9E
	0638	0950	2.0F
	1321	1559	1.8E
	1904	2212	1.9F
21 Th	0142	0424	1.8E
	0730	1043	1.9F
	1420	1654	1.6E
	2001	2309	1.7F
22 F	0239	0520	1.6E
	0829	1147	1.8F
	1527	1759	1.4E
	2107		
23 Sa		0018	1.5F
	0344	0625	1.5E
	0937	1308	1.7F
	1637	1909	1.3E
	2221		
24 Su		0142	1.4F
	0453	0734	1.5E
	1049	1433	1.8F
	1747	2024	1.3E
	2335		
25 M		0306	1.5F
	0600	0849	1.5E
	1200	1544	2.0F
	1852	2139	1.4E
26 Tu	0043	0411	1.7F
	0703	0958	1.7E
	1304	1645	2.1F
	1949	2240	1.6E
27 W	0142	0509	1.9F
	0800	1056	1.8E
	1401	1738	2.3F
	2041	2335	1.8E
28 Th	0234	0600	2.0F
	0852	1147	1.9E
	1452	1826	2.4F
	2128		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0020	1.9E
F	0321	0645	2.2F
	0940	1235	2.0E
	1539	1909	2.4F
	2211		
2		0101	1.9E
Sa	0404	0730	2.2F
	1027	1318	2.0E
	1624	1952	2.3F
	2254		
3		0142	1.9E
Su	0447	0813	2.2F
	1112	1400	1.9E
	1707	2033	2.2F
	2336		
4		0222	1.9E
M	0528	0852	2.1F
	1159	1442	1.8E
	1751	2114	2.0F
5	0019	0303	1.8E
Tu	0612	0940	2.0F
	1247	1527	1.7E
	1836	2159	1.9F
6	0105	0346	1.7E
W	0658	1026	1.9F
	1338	1615	1.5E
	1925	2249	1.7F
7	0154	0436	1.6E
Th	0747	1122	1.8F
	1433	1710	1.4E
	2019	2345	1.6F
8	0248	0529	1.5E
F	0842	1221	1.8F
	1531	1810	1.3E
	2117		
9		0049	1.5F
Sa	0345	0630	1.4E
	0940	1323	1.8F
	1629	1913	1.3E
	2218		
10		0150	1.5F
Su	0442	0730	1.4E
	1038	1424	1.8F
	1726	2012	1.3E
	2317		
11		0249	1.6F
M	0538	0828	1.5E
	1134	1517	1.9F
	1818	2108	1.4E
12	0010	0339	1.7F
Tu	0629	0920	1.6E
	1224	1604	2.0F
	1905	2155	1.6E
13	0057	0424	1.8F
W	0716	1005	1.7E
	1309	1643	2.1F
	1948	2234	1.7E
14	0138	0503	1.9F
Th	0758	1044	1.8E
	1351	1721	2.2F
	2027	2309	1.8E
15	0216	0538	2.0F
F	0838	1122	1.9E
	1429	1754	2.2F
	2104	2345	1.9E
16	0252	0607	2.1F
Sa	0917	1159	2.0E
	1506	1825	2.2F
	2140		
17		0020	2.0E
Su	0326	0639	2.2F
	0955	1236	2.1E
	1544	1857	2.2F
	2216		
18		0057	2.1E
M	0403	0714	2.2F
	1036	1317	2.1E
	1623	1932	2.2F
	2255		
19		0136	2.1E
Tu	0441	0751	2.3F
	1120	1400	2.0E
	1706	2013	2.1F
	2337		
20		0220	2.0E
W	0524	0836	2.2F
	1208	1449	1.9E
	1753	2058	2.0F
21	0024	0309	1.9E
Th	0612	0928	2.1F
	1303	1540	1.8E
	1846	2151	1.8F
22	0118	0402	1.8E
F	0707	1025	2.0F
	1404	1638	1.6E
	1947	2254	1.6F
23	0220	0501	1.6E
Sa	0811	1139	1.8F
	1513	1745	1.4E
	2058		
24		0014	1.5F
Su	0329	0611	1.5E
	0924	1303	1.8F
	1624	1902	1.3E
	2214		
25		0144	1.5F
M	0441	0726	1.4E
	1039	1426	1.9F
	1733	2021	1.4E
	2327		
26		0300	1.6F
Tu	0550	0844	1.5E
	1149	1531	2.0F
	1835	2132	1.5E
27	0032	0401	1.8F
W	0652	0950	1.7E
	1252	1629	2.2F
	1930	2227	1.7E
28	0127	0456	2.0F
Th	0747	1049	1.8E
	1347	1720	2.3F
	2020	2317	1.8E
29	0216	0545	2.2F
F	0837	1134	1.9E
	1436	1807	2.3F
	2104		
30		0000	1.9E
Sa	0300	0627	2.2F
	0924	1219	1.9E
	1521	1848	2.2F
	2146		
31		0039	1.9E
Su	0341	0708	2.2F
	1008	1300	1.9E
	1603	1929	2.1F
	2226		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0117	1.9E
M	0420	0749	2.2F
	1052	1338	1.8E
	1644	2008	2.0F
	2306		
2		0151	1.8E
Tu	0459	0828	2.1F
	1135	1416	1.7E
	1725	2046	1.9F
	2348		
3		0230	1.7E
W	0539	0908	2.0F
	1221	1459	1.6E
	1808	2126	1.7F
4	0031	0312	1.7E
Th	0622	0953	1.9F
	1309	1543	1.5E
	1854	2212	1.6F
5	0119	0359	1.6E
F	0710	1041	1.9F
	1400	1635	1.4E
	1945	2307	1.5F
6	0211	0451	1.5E
Sa	0801	1139	1.8F
	1454	1730	1.4E
	2041		
7		0005	1.5F
Su	0307	0548	1.4E
	0857	1236	1.8F
	1549	1828	1.4E
	2139		
8		0107	1.5F
M	0404	0645	1.4E
	0954	1335	1.8F
	1644	1927	1.4E
	2235		
9		0205	1.6F
Tu	0459	0743	1.5E
	1049	1430	1.9F
	1735	2019	1.5E
	2328		
10		0254	1.7F
W	0551	0835	1.5E
	1141	1520	2.0F
	1823	2107	1.6E
11	0015	0341	1.8F
Th	0639	0923	1.7E
	1229	1601	2.0F
	1906	2149	1.7E
12	0058	0424	1.9F
F	0724	1005	1.8E
	1313	1637	2.1F
	1947	2230	1.8E
13	0137	0457	2.0F
Sa	0806	1049	1.9E
	1355	1712	2.1F
	2026	2308	1.9E
14	0215	0533	2.2F
Su	0848	1128	2.0E
	1435	1749	2.1F
	2105	2346	2.0E
15	0253	0608	2.2F
M	0930	1209	2.0E
	1517	1826	2.1F
	2144		
16		0027	2.1E
Tu	0333	0648	2.3F
	1014	1254	2.0E
	1600	1907	2.1F
	2226		
17		0110	2.1E
W	0416	0731	2.3F
	1101	1339	2.0E
	1647	1952	2.0F
	2312		
18		0157	2.0E
Th	0503	0820	2.3F
	1153	1429	1.9E
	1738	2043	1.9F
19	0004	0248	1.9E
F	0555	0915	2.1F
	1250	1524	1.7E
	1835	2143	1.7F
20	0102	0345	1.8E
Sa	0654	1018	2.0F
	1353	1629	1.6E
	1940	2252	1.6F
21	0207	0447	1.6E
Su	0800	1134	1.9F
	1500	1736	1.5E
	2051		
22		0014	1.5F
M	0317	0600	1.5E
	0912	1256	1.9F
	1608	1853	1.4E
	2203		
23		0134	1.6F
Tu	0428	0718	1.5E
	1025	1410	2.0F
	1712	2006	1.5E
	2311		
24		0243	1.8F
W	0534	0830	1.6E
	1133	1513	2.1F
	1812	2112	1.6E
25	0012	0345	2.0F
Th	0635	0935	1.7E
	1234	1608	2.1F
	1905	2205	1.7E
26	0106	0434	2.1F
F	0730	1030	1.8E
	1328	1659	2.2F
	1954	2254	1.8E
27	0153	0525	2.2F
Sa	0820	1118	1.8E
	1417	1744	2.1F
	2038	2335	1.8E
28	0236	0608	2.2F
Su	0906	1200	1.8E
	1501	1826	2.1F
	2119		
29		0014	1.8E
M	0316	0647	2.2F
	0950	1240	1.7E
	1542	1905	2.0F
	2159		
30		0049	1.8E
Tu	0354	0726	2.2F
	1032	1319	1.7E
	1621	1944	1.9F
	2238		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

POLLOCK RIP CHANNEL, MASSACHUSETTS, 1991

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0125	1.7E	16		0049	2.0E
W	0432	0805	2.1F	Th	0357	0718	2.3F
	1114	1353	1.6E		1047	1325	1.9E
	1701	2019	1.7F		1633	1936	1.9F
	2319				2254		
2		0200	1.7E	17		0138	2.0E
Th	0511	0842	2.0F	F	0448	0811	2.3F
	1156	1434	1.6E		1141	1418	1.8E
	1742	2058	1.7F		1728	2033	1.8F
					2349		
3	0001	0242	1.7E	18		0234	1.9E
F	0552	0921	2.0F	Sa	0544	0911	2.2F
	1241	1517	1.5E		1239	1515	1.7E
	1826	2140	1.6F		1827	2138	1.7F
4	0047	0327	1.6E	19	0050	0333	1.8E
Sa	0636	1006	1.9F	Su	0644	1015	2.1F
	1328	1604	1.5E		1340	1619	1.6E
	1914	2229	1.6F		1931	2247	1.7F
5	0137	0416	1.6E	20	0154	0438	1.7E
Su	0724	1057	1.9F	M	0749	1126	2.0F
	1418	1654	1.5E		1442	1726	1.6E
	2005	2323	1.5F		2037		
6	0229	0507	1.5E	21		0004	1.7F
M	0816	1148	1.9F	Tu	0301	0548	1.6E
	1509	1745	1.5E		0857	1238	2.0F
	2058				1545	1836	1.6E
					2144		
7		0017	1.6F	22		0115	1.8F
Tu	0324	0602	1.5E	W	0409	0700	1.6E
	0909	1241	1.9F		1004	1345	2.0F
	1600	1838	1.5E		1646	1944	1.6E
	2151				2248		
8		0112	1.6F	23		0219	1.9F
W	0418	0656	1.5E	Th	0513	0809	1.6E
	1003	1335	1.9F		1110	1446	2.0F
	1650	1931	1.6E		1743	2043	1.7E
	2242				2346		
9		0203	1.7F	24		0316	2.0F
Th	0510	0749	1.6E	F	0614	0913	1.6E
	1055	1425	1.9F		1210	1542	2.0F
	1737	2019	1.7E		1837	2136	1.7E
	2330						
10		0251	1.8F	25	0039	0411	2.1F
F	0600	0838	1.6E	Sa	0709	1008	1.7E
	1145	1510	1.9F		1304	1633	2.0F
	1823	2104	1.7E		1926	2227	1.8E
11	0015	0335	1.9F	26	0128	0502	2.2F
Sa	0648	0927	1.7E	Su	0800	1059	1.7E
	1234	1552	2.0F		1354	1720	2.0F
	1907	2149	1.8E		2011	2311	1.8E
12	0058	0420	2.0F	27	0212	0545	2.2F
Su	0735	1012	1.8E	M	0847	1142	1.6E
	1320	1634	2.0F		1439	1803	1.9F
	1950	2232	1.9E		2053	2352	1.7E
13	0141	0459	2.2F	28	0252	0629	2.2F
M	0821	1059	1.9E	Tu	0931	1221	1.6E
	1406	1717	2.0F		1520	1844	1.8F
	2032	2315	2.0E		2133		
14	0224	0544	2.2F	29		0027	1.7E
Tu	0908	1146	1.9E	W	0330	0706	2.2F
	1453	1803	2.0F		1012	1258	1.6E
	2117				1600	1921	1.8F
					2213		
15		0002	2.0E	30		0103	1.7E
W	0309	0629	2.3F	Th	0408	0745	2.1F
	0956	1234	1.9E		1052	1334	1.6E
	1541	1849	2.0F		1638	1956	1.7F
	2204				2253		
				31		0136	1.7E
				F	0445	0820	2.1F
					1132	1410	1.6E
					1717	2034	1.7F
					2334		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0217	1.7E	16		0223	1.9E
Sa	0524	0855	2.1F	Su	0533	0903	2.3F
	1213	1449	1.6E		1224	1505	1.8E
	1759	2112	1.7F		1815	2130	1.8F
2	0017	0258	1.7E	17	0035	0320	1.9E
Su	0606	0933	2.0F	M	0632	1003	2.2F
	1256	1532	1.6E		1321	1604	1.7E
	1842	2153	1.7F		1914	2236	1.8F
3	0103	0343	1.7E	18	0137	0422	1.8E
M	0650	1015	2.0F	Tu	0732	1108	2.1F
	1341	1619	1.6E		1418	1703	1.7E
	1928	2238	1.7F		2015	2343	1.8F
4	0152	0432	1.6E	19	0240	0527	1.6E
Tu	0736	1101	2.0F	W	0835	1211	2.0F
	1427	1704	1.6E		1517	1809	1.7E
	2016	2327	1.7F		2116		
5	0243	0520	1.6E	20		0047	1.9F
W	0826	1149	1.9F	Th	0344	0635	1.6E
	1515	1753	1.7E		0938	1316	2.0F
	2105				1615	1911	1.6E
					2217		
6		0018	1.7F	21		0150	1.9F
Th	0336	0611	1.6E	F	0448	0743	1.5E
	0917	1240	1.9F		1041	1418	1.9F
	1604	1842	1.7E		1712	2012	1.6E
	2155				2315		
7		0111	1.7F	22		0251	2.0F
F	0429	0704	1.6E	Sa	0549	0846	1.5E
	1010	1331	1.8F		1142	1513	1.9F
	1653	1932	1.7E		1806	2108	1.7E
	2244						
8		0202	1.8F	23	0010	0345	2.1F
Sa	0522	0757	1.6E	Su	0646	0943	1.5E
	1103	1422	1.8F		1238	1608	1.9F
	1741	2021	1.7E		1856	2201	1.7E
	2334						
9		0256	1.9F	24	0100	0436	2.1F
Su	0615	0852	1.6E	M	0738	1034	1.5E
	1157	1511	1.8F		1330	1657	1.9F
	1829	2112	1.8E		1944	2246	1.7E
10	0023	0345	2.0F	25	0146	0525	2.2F
M	0707	0942	1.7E	Tu	0825	1120	1.6E
	1250	1600	1.8F		1416	1742	1.8F
	1918	2201	1.9E		2028	2325	1.7E
11	0112	0434	2.1F	26	0228	0606	2.2F
Tu	0759	1035	1.7E	W	0909	1201	1.6E
	1342	1652	1.8F		1458	1822	1.8F
	2006	2252	1.9E		2109		
12	0202	0525	2.2F	27		0004	1.7E
W	0851	1126	1.8E	Th	0307	0643	2.2F
	1435	1745	1.9F		0949	1236	1.6E
	2056	2342	2.0E		1537	1901	1.8F
					2149		
13	0252	0619	2.3F	28		0038	1.7E
Th	0943	1219	1.8E	F	0344	0720	2.2F
	1528	1838	1.9F		1027	1311	1.6E
	2147				1614	1934	1.8F
					2227		
14		0035	2.0E	29		0113	1.8E
F	0344	0710	2.3F	Sa	0420	0751	2.1F
	1035	1312	1.8E		1105	1343	1.7E
	1622	1931	1.9F		1651	2007	1.8F
	2241				2307		
15		0128	2.0E	30		0150	1.8E
Sa	0438	0805	2.3F	Su	0457	0826	2.1F
	1129	1408	1.8E		1143	1420	1.7E
	1718	2029	1.9F		1729	2039	1.8F
	2337				2347		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0227	1.8E	16	0018	0305	1.9E
W	0535	0858	2.1F	Tu	0614	0944	2.2F
	1222	1459	1.8E		1256	1540	1.8E
	1808	2118	1.8F		1850	2212	2.0F
2	0030	0311	1.8E	17	0115	0402	1.8E
Tu	0616	0936	2.1F	W	0710	1041	2.1F
	1303	1540	1.8E		1350	1636	1.7E
	1849	2157	1.8F		1945	2313	1.9F
3	0115	0356	1.8E	18	0215	0500	1.7E
W	0659	1017	2.0F	Th	0808	1141	2.0F
	1346	1623	1.8E		1445	1733	1.7E
	1933	2242	1.8F		2043		
4	0204	0441	1.7E	19		0016	1.9F
Th	0746	1100	2.0F	F	0316	0603	1.5E
	1432	1711	1.7E		0908	1242	1.9F
	2020	2331	1.8F		1541	1834	1.6E
					2142		
5	0255	0532	1.7E	20		0121	1.9F
F	0836	1151	1.9F	Sa	0419	0710	1.4E
	1521	1800	1.7E		1010	1345	1.8F
	2110				1638	1936	1.6E
					2241		
6		0021	1.8F	21		0219	1.9F
Sa	0351	0625	1.6E	Su	0521	0815	1.4E
	0930	1242	1.8F		1112	1446	1.8F
	1612	1851	1.7E		1734	2035	1.6E
	2202				2338		
7		0120	1.8F	22		0318	2.0F
Su	0449	0721	1.5E	M	0619	0915	1.4E
	1027	1343	1.7F		1210	1540	1.8F
	1705	1946	1.7E		1827	2132	1.6E
	2258						
8		0217	1.9F	23	0031	0409	2.1F
M	0547	0818	1.5E	Tu	0712	1008	1.5E
	1127	1441	1.7F		1303	1629	1.8F
	1759	2041	1.7E		1917	2221	1.6E
	2354						
9		0320	1.9F	24	0119	0458	2.1F
Tu	0646	0919	1.5E	W	0759	1055	1.5E
	1227	1542	1.7F		1350	1718	1.8F
	1854	2139	1.8E		2002	2302	1.7E
10	0051	0421	2.0F	25	0202	0542	2.2F
W	0743	1018	1.6E	Th	0842	1136	1.6E
	1326	1640	1.7F		1432	1757	1.8F
	1948	2234	1.8E		2044	2338	1.7E
11	0146	0518	2.2F	26	0242	0617	2.2F
Th	0837	1116	1.7E	F	0921	1211	1.6E
	1423	1738	1.8F		1510	1832	1.9F
	2042	2331	1.9E		2123		
12	0241	0613	2.3F	27		0013	1.8E
F	0930	1209	1.8E	Sa	0318	0652	2.2F
	1517	1832	1.9F		0958	1242	1.7E
	2135				1546	1905	1.9F
					2201		
13		0024	2.0E	28		0048	1.8E
Sa	0334	0705	2.3F	Su	0353	0722	2.2F
	1022	1302	1.8E		1034	1314	1.8E
	1610	1927	2.0F		1620	1935	1.9F
	2229				2238		
14		0116	2.0E	29		0122	1.9E
Su	0427	0758	2.4F	M	0429	0751	2.2F
	1113	1355	1.9E		1110	1347	1.8E
	1703	2020	2.0F		1655	2004	1.9F
	2323				2317		
15		0211	2.0E	30		0159	1.9E
M	0520	0848	2.3F	Tu	0505	0824	2.2F
	1204	1446	1.9E		1146	1422	1.9E
	1756	2114	2.0F		1731	2039	2.0F
					2357		
				31		0238	1.9E
				W	0543	0857	2.1F
					1225	1504	1.9E
					1810	2116	2.0F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0040	0321	1.9E	16	0147	0431	1.6E
Th	0624	0938	2.1F	F	0738	1108	1.8F
	1306	1547	1.9E		1410	1656	1.6E
	1852	2200	1.9F		2007	2341	1.9F
2	0128	0406	1.8E	17	0246	0530	1.5E
F	0710	1023	2.0F	Sa	0836	1209	1.7F
	1352	1632	1.8E		1506	1752	1.5E
	1938	2247	1.9F		2104		
3	0220	0458	1.7E	18		0045	1.8F
Sa	0800	1110	1.8F	Su	0348	0633	1.4E
	1442	1723	1.7E		0938	1310	1.6F
	2030	2342	1.8F		1604	1857	1.5E
					2204		
4	0319	0553	1.5E	19		0146	1.9F
Su	0857	1208	1.7F	M	0449	0739	1.3E
	1537	1820	1.6E		1040	1414	1.6F
	2128				1702	1958	1.5E
					2303		
5		0047	1.8F	20		0247	1.9F
M	0422	0654	1.4E	Tu	0547	0844	1.4E
	1000	1311	1.6F		1139	1509	1.7F
	1636	1918	1.6E		1757	2056	1.5E
	2230				2358		
6		0157	1.8F	21		0339	2.0F
Tu	0527	0757	1.4E	W	0640	0935	1.5E
	1107	1424	1.5F		1233	1600	1.8F
	1738	2021	1.6E		1848	2147	1.6E
	2334						
7		0309	1.9F	22	0048	0426	2.1F
W	0630	0905	1.4E	Th	0727	1024	1.6E
	1214	1535	1.6F		1320	1645	1.8F
	1839	2124	1.7E		1934	2230	1.7E
8	0037	0414	2.0F	23	0132	0509	2.2F
Th	0729	1008	1.6E	F	0809	1102	1.7E
	1316	1636	1.7F		1401	1726	1.9F
	1937	2227	1.8E		2016	2309	1.8E
9	0136	0512	2.2F	24	0212	0546	2.2F
F	0824	1106	1.7E	Sa	0848	1137	1.7E
	1413	1735	1.9F		1439	1802	2.0F
	2031	2321	1.9E		2055	2344	1.9E
10	0231	0605	2.3F	25	0248	0619	2.2F
Sa	0915	1200	1.8E	Su	0924	1209	1.8E
	1505	1826	2.0F		1513	1831	2.0F
	2124				2132		
11		0015	2.0E	26		0016	1.9E
Su	0324	0654	2.4F	M	0324	0649	2.2F
	1004	1249	1.9E		0959	1240	1.9E
	1555	1915	2.1F		1546	1901	2.0F
	2215				2209		
12		0104	2.0E	27		0051	2.0E
M	0414	0743	2.4F	Tu	0358	0716	2.2F
	1052	1337	1.9E		1034	1313	1.9E
	1643	2003	2.1F		1619	1932	2.1F
	2306				2247		
13		0155	2.0E	28		0128	2.0E
Tu	0503	0832	2.3F	W	0434	0747	2.2F
	1139	1423	1.9E		1110	1348	2.0E
	1731	2052	2.1F		1654	2003	2.1F
	2358				2326		
14		0244	1.9E	29		0207	2.0E
W	0553	0921	2.2F	Th	0512	0822	2.1F
	1227	1512	1.8E		1148	1429	2.0E
	1820	2147	2.0F		1732	2042	2.1F
15	0051	0337	1.8E	30	0010	0249	1.9E
Th	0644	1011	2.0F	F	0554	0901	2.0F
	1317	1603	1.7E		1230	1512	1.9E
	1912	2242	2.0F		1815	2127	2.0F
				31	0058	0338	1.8E
				Sa	0640	0946	1.9F
					1316	1559	1.8E
					1903	2218	2.0F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0153	0431	1.6E	16		0008	1.8F
Su	0733	1040	1.7F	M	0314	0555	1.3E
	1410	1650	1.7E		0904	1236	1.5F
	1958	2317	1.8F		1528	1815	1.4E
					2125		
2	0255	0528	1.5E	17		0109	1.8F
M	0835	1143	1.5F	Tu	0414	0702	1.3E
	1511	1754	1.6E		1005	1337	1.5F
	2102				1627	1918	1.4E
					2224		
3		0027	1.8F	18		0209	1.9F
Tu	0403	0633	1.4E	W	0510	0801	1.4E
	0944	1258	1.5F		1104	1436	1.6F
	1618	1859	1.5E		1723	2019	1.5E
	2212				2320		
4		0146	1.8F	19		0300	2.0F
W	0511	0745	1.4E	Th	0602	0855	1.5E
	1057	1419	1.5F		1157	1528	1.8F
	1725	2006	1.5E		1815	2110	1.6E
	2322						
5		0303	1.9F	20	0010	0343	2.1F
Th	0616	0857	1.4E	F	0649	0942	1.6E
	1205	1534	1.6F		1244	1611	1.9F
	1828	2116	1.6E		1902	2155	1.7E
6	0027	0408	2.1F	21	0056	0430	2.1F
F	0714	1001	1.6E	Sa	0732	1023	1.7E
	1306	1633	1.8F		1325	1650	2.0F
	1927	2220	1.8E		1944	2234	1.8E
7	0126	0503	2.2F	22	0137	0509	2.2F
Sa	0808	1056	1.7E	Su	0811	1058	1.8E
	1400	1725	2.0F		1402	1725	2.0F
	2021	2315	1.9E		2024	2309	1.9E
8	0220	0554	2.3F	23	0215	0541	2.2F
Su	0857	1147	1.9E	M	0847	1130	1.9E
	1449	1814	2.1F		1437	1756	2.1F
	2111				2102	2345	1.9E
9		0004	2.0E	24	0251	0610	2.2F
M	0310	0639	2.3F	Tu	0923	1203	2.0E
	0943	1230	1.9E		1510	1826	2.2F
	1535	1901	2.2F		2140		
	2200						
10		0050	2.0E	25		0021	2.0E
Tu	0357	0725	2.3F	W	0327	0641	2.2F
	1027	1314	1.9E		0958	1238	2.0E
	1620	1946	2.2F		1545	1857	2.2F
	2248				2218		
11		0136	1.9E	26		0058	2.0E
W	0443	0808	2.2F	Th	0405	0713	2.1F
	1112	1357	1.9E		1035	1315	2.0E
	1704	2029	2.2F		1621	1934	2.2F
	2336				2300		
12		0221	1.8E	27		0139	2.0E
Th	0529	0853	2.0F	F	0444	0752	2.1F
	1157	1440	1.8E		1114	1358	2.0E
	1750	2117	2.1F		1701	2015	2.2F
					2345		
13	0026	0308	1.7E	28		0224	1.9E
F	0617	0940	1.9F	Sa	0528	0833	2.0F
	1244	1526	1.7E		1158	1442	1.9E
	1837	2206	2.0F		1746	2058	2.1F
14	0119	0359	1.5E	29	0036	0315	1.8E
Sa	0708	1035	1.7F	Su	0618	0922	1.8F
	1335	1617	1.6E		1249	1533	1.8E
	1929	2307	1.8F		1837	2156	2.0F
15	0215	0455	1.4E	30	0134	0408	1.6E
Su	0804	1133	1.6F	M	0716	1021	1.6F
	1430	1713	1.4E		1347	1630	1.6E
	2025				1937	2257	1.9F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0239	0510	1.5E	16		0025	1.8F
Tu	0822	1133	1.5F	W	0334	0617	1.4E
	1454	1733	1.5E		0926	1256	1.5F
	2045				1549	1833	1.4E
					2140		
2		0017	1.8F	17		0124	1.8F
W	0348	0621	1.4E	Th	0428	0715	1.4E
	0935	1256	1.5F		1023	1352	1.6F
	1604	1845	1.5E		1645	1930	1.5E
	2158				2235		
3		0139	1.8F	18		0217	1.9F
Th	0456	0737	1.4E	F	0519	0808	1.5E
	1048	1418	1.6F		1115	1443	1.7F
	1713	2002	1.5E		1737	2023	1.5E
	2310				2327		
4		0254	1.9F	19		0304	2.0F
F	0559	0847	1.5E	Sa	0606	0857	1.6E
	1154	1526	1.8F		1202	1529	1.9F
	1817	2110	1.6E		1825	2111	1.6E
5	0015	0355	2.1F	20	0015	0348	2.0F
Sa	0656	0950	1.7E	Su	0650	0936	1.7E
	1252	1621	2.0F		1244	1611	2.0F
	1915	2210	1.8E		1910	2155	1.7E
6	0114	0449	2.2F	21	0058	0427	2.1F
Su	0748	1043	1.8E	M	0731	1016	1.8E
	1344	1712	2.1F		1323	1646	2.1F
	2008	2305	1.9E		1951	2233	1.8E
7	0206	0536	2.2F	22	0139	0502	2.1F
M	0835	1128	1.9E	Tu	0809	1051	1.9E
	1431	1759	2.2F		1400	1718	2.1F
	2057	2350	1.9E		2032	2311	1.9E
8	0254	0623	2.2F	23	0219	0536	2.1F
Tu	0919	1212	1.9E	W	0847	1128	2.0E
	1515	1844	2.3F		1436	1751	2.2F
	2144				2112	2352	2.0E
9		0035	1.9E	24	0258	0609	2.1F
W	0339	0704	2.1F	Th	0924	1208	2.0E
	1002	1252	1.9E		1513	1828	2.3F
	1557	1926	2.2F		2154		
	2230						
10		0118	1.8E	25		0031	2.0E
Th	0423	0747	2.0F	F	0339	0646	2.0F
	1044	1333	1.8E		1004	1249	2.1E
	1638	2007	2.2F		1553	1910	2.3F
	2316				2239		
11		0159	1.7E	26		0116	1.9E
F	0507	0828	1.9F	Sa	0422	0725	2.0F
	1128	1411	1.7E		1047	1332	2.0E
	1721	2052	2.1F		1637	1953	2.3F
					2327		
12	0003	0242	1.6E	27		0203	1.9E
Sa	0551	0911	1.7F	Su	0510	0814	1.9F
	1213	1455	1.6E		1135	1419	1.9E
	1805	2137	2.0F		1725	2042	2.2F
13	0052	0333	1.5E	28	0021	0255	1.8E
Su	0640	1002	1.6F	M	0604	0907	1.7F
	1302	1544	1.5E		1230	1514	1.8E
	1854	2230	1.9F		1821	2141	2.1F
14	0145	0422	1.4E	29	0120	0356	1.6E
M	0732	1056	1.5F	Tu	0704	1009	1.6F
	1355	1635	1.5E		1332	1615	1.7E
	1947	2327	1.8F		1923	2250	1.9F
15	0239	0520	1.4E	30	0224	0457	1.5E
Tu	0829	1155	1.5F	W	0812	1126	1.5F
	1452	1733	1.4E		1440	1721	1.5E
	2043				2032		
				31		0008	1.9F
				Th	0331	0610	1.5E
					0923	1249	1.6F
					1550	1834	1.5E
					2144		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0128	1.9F	16		0122	1.9F
F	0436	0723	1.5E	Sa	0433	0716	1.6E
	1033	1406	1.7F		1027	1352	1.7F
	1659	1949	1.5E		1655	1934	1.5E
	2255				2240		
2		0236	2.0F	17		0210	1.9F
Sa	0537	0832	1.6E	Su	0521	0805	1.7E
	1137	1507	1.9F		1115	1441	1.8F
	1802	2058	1.6E		1745	2025	1.6E
	2359				2330		
3		0335	2.1F	18		0257	1.9F
Su	0633	0932	1.7E	M	0606	0850	1.7E
	1234	1604	2.1F		1200	1525	1.9F
	1900	2157	1.7E		1833	2110	1.7E
4	0057	0430	2.1F	19	0018	0339	1.9F
M	0725	1023	1.8E	Tu	0650	0934	1.8E
	1325	1656	2.2F		1243	1605	2.0F
	1954	2250	1.8E		1919	2157	1.7E
5	0150	0519	2.1F	20	0103	0421	1.9F
Tu	0812	1109	1.8E	W	0732	1015	1.9E
	1411	1743	2.3F		1324	1646	2.1F
	2043	2340	1.8E		2004	2240	1.8E
6	0238	0604	2.1F	21	0148	0459	1.9F
W	0856	1151	1.8E	Th	0813	1056	2.0E
	1454	1828	2.3F		1405	1725	2.2F
	2129				2049	2325	1.9E
7		0021	1.8E	22	0232	0540	2.0F
Th	0322	0648	2.0F	F	0855	1141	2.0E
	0938	1232	1.8E		1448	1806	2.3F
	1535	1909	2.2F		2135		
	2214						
8		0102	1.7E	23		0011	1.9E
F	0404	0727	1.9F	Sa	0318	0623	1.9F
	1020	1309	1.8E		0940	1226	2.0E
	1615	1950	2.2F		1532	1852	2.3F
	2257				2222		
9		0141	1.6E	24		0058	1.9E
Sa	0446	0804	1.8F	Su	0406	0709	1.9F
	1101	1348	1.7E		1027	1311	2.0E
	1655	2030	2.1F		1620	1942	2.3F
	2341				2313		
10		0220	1.6E	25		0149	1.8E
Su	0528	0845	1.7F	M	0458	0802	1.9F
	1145	1429	1.6E		1119	1404	2.0E
	1737	2111	2.0F		1712	2033	2.2F
11	0026	0305	1.5E	26	0007	0242	1.8E
M	0613	0930	1.6F	Tu	0553	0859	1.8F
	1231	1514	1.6E		1215	1458	1.9E
	1821	2156	1.9F		1809	2133	2.2F
12	0113	0350	1.5E	27	0105	0341	1.7E
Tu	0700	1019	1.6F	W	0653	1004	1.7F
	1321	1603	1.5E		1317	1559	1.7E
	1909	2244	1.9F		1911	2242	2.1F
13	0202	0440	1.5E	28	0206	0445	1.6E
W	0751	1110	1.5F	Th	0758	1116	1.7F
	1413	1651	1.5E		1423	1706	1.6E
	2001	2336	1.9F		2017	2352	2.0F
14	0252	0532	1.5E	29	0308	0552	1.6E
Th	0843	1205	1.6F	F	0904	1232	1.7F
	1508	1747	1.5E		1532	1818	1.6E
	2054				2126		
15		0029	1.9F	30		0104	2.0F
F	0343	0625	1.5E	Sa	0411	0702	1.6E
	0936	1301	1.6F		1010	1343	1.8F
	1602	1842	1.5E		1639	1930	1.5E
	2147				2234		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0213	2.0F	16		0114	1.8F
Su	0511	0808	1.6E	M	0434	0712	1.7E
	1113	1447	2.0F		1026	1347	1.8F
	1743	2039	1.6E		1704	1936	1.5E
	2339				2244		
2		0312	2.0F	17		0205	1.8F
M	0608	0909	1.7E	Tu	0522	0804	1.7E
	1211	1542	2.1F		1115	1437	1.8F
	1843	2139	1.6E		1757	2031	1.5E
					2338		
3	0038	0410	2.0F	18		0256	1.8F
Tu	0701	1002	1.7E	W	0610	0853	1.7E
	1304	1637	2.2F		1204	1528	1.9F
	1938	2236	1.6E		1849	2122	1.6E
4	0132	0459	2.0F	19	0030	0345	1.8F
W	0749	1051	1.8E	Th	0658	0942	1.8E
	1352	1726	2.2F		1252	1617	2.1F
	2028	2325	1.7E		1939	2214	1.7E
5	0221	0546	1.9F	20	0121	0433	1.8F
Th	0835	1137	1.8E	F	0745	1029	1.9E
	1435	1811	2.2F		1340	1704	2.2F
	2114				2029	2305	1.7E
6		0008	1.6E	21	0212	0522	1.8F
F	0306	0629	1.9F	Sa	0833	1118	2.0E
	0917	1212	1.8E		1429	1755	2.3F
	1516	1853	2.2F		2119	2356	1.8E
	2157						
7		0049	1.6E	22	0303	0611	1.9F
Sa	0347	0710	1.8F	Su	0922	1208	2.0E
	0958	1248	1.7E		1518	1843	2.3F
	1555	1930	2.2F		2209		
	2238						
8		0124	1.6E	23		0047	1.9E
Su	0426	0749	1.7F	M	0354	0702	1.9F
	1038	1324	1.7E		1013	1259	2.1E
	1633	2007	2.1F		1609	1934	2.4F
	2318				2259		
9		0200	1.6E	24		0138	1.9E
M	0505	0824	1.7F	Tu	0446	0755	1.9F
	1119	1404	1.7E		1106	1352	2.0E
	1711	2044	2.1F		1702	2027	2.3F
	2358				2352		
10		0236	1.6E	25		0232	1.9E
Tu	0545	0900	1.7F	W	0540	0851	1.9F
	1202	1445	1.7E		1202	1445	2.0E
	1752	2121	2.1F		1757	2124	2.3F
11	0040	0317	1.6E	26	0046	0327	1.8E
W	0627	0941	1.7F	Th	0637	0953	1.9F
	1247	1528	1.7E		1301	1544	1.8E
	1834	2203	2.0F		1856	2225	2.1F
12	0124	0402	1.6E	27	0143	0425	1.7E
Th	0712	1025	1.7F	F	0736	1058	1.8F
	1335	1613	1.6E		1403	1648	1.7E
	1920	2246	2.0F		1957	2332	2.0F
13	0209	0447	1.6E	28	0242	0526	1.7E
F	0758	1110	1.7F	Sa	0838	1207	1.8F
	1425	1700	1.6E		1509	1755	1.6E
	2008	2333	1.9F		2102		
14	0256	0536	1.6E	29		0037	1.9F
Sa	0847	1201	1.7F	Su	0341	0632	1.6E
	1517	1752	1.6E		0942	1317	1.9F
	2059				1615	1905	1.5E
					2209		
15		0023	1.9F	30		0146	1.9F
Su	0345	0623	1.6E	M	0442	0739	1.6E
	0936	1256	1.7F		1045	1422	1.9F
	1611	1845	1.5E		1721	2019	1.5E
	2151				2315		
				31		0248	1.8F
				Tu	0540	0842	1.6E
					1145	1523	2.0F
					1823	2120	1.5E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0227	4.2E
Tu	0531	0825	4.1F
	1129	1454	4.9E
	1811	2100	4.0F
2	0005	0321	4.3E
W	0627	0917	4.0F
	1221	1546	4.7E
	1902	2150	4.0F
3	0057	0414	4.2E
Th	0722	1010	3.8F
	1314	1638	4.5E
	1952	2242	3.9F
4	0149	0507	4.1E
F	0818	1104	3.5F
	1406	1730	4.1E
	2044	2333	3.6F
5	0241	0600	3.9E
Sa	0916	1159	3.1F
	1500	1825	3.7E
	2137		
6		0026	3.3F
Su	0334	0655	3.6E
	1016	1257	2.7F
	1556	1919	3.3E
	2232		
7		0122	2.9F
M	0428	0752	3.4E
	1118	1401	2.4F
	1654	2014	2.9E
	2328		
8		0221	2.7F
Tu	0524	0850	3.2E
	1220	1504	2.2F
	1754	2113	2.6E
9	0026	0324	2.5F
W	0620	0949	3.1E
	1320	1610	2.1F
	1855	2210	2.5E
10	0123	0421	2.4F
Th	0714	1042	3.1E
	1416	1709	2.1F
	1953	2306	2.5E
11	0216	0514	2.3F
F	0805	1133	3.2E
	1506	1800	2.2F
	2046	2355	2.5E
12	0306	0600	2.4F
Sa	0852	1222	3.3E
	1551	1847	2.3F
	2132		
13		0042	2.6E
Su	0351	0641	2.5F
	0935	1304	3.4E
	1632	1924	2.5F
	2214		
14		0125	2.7E
M	0433	0718	2.5F
	1015	1347	3.4E
	1710	1955	2.6F
	2252		
15		0206	2.8E
Tu	0512	0754	2.6F
	1054	1424	3.5E
	1746	2026	2.7F
	2328		
16		0245	2.9E
W	0549	0830	2.7F
	1131	1502	3.5E
	1819	2058	2.8F
17	0003	0322	3.0E
Th	0625	0908	2.8F
	1208	1537	3.4E
	1850	2134	2.9F
18	0039	0357	3.0E
F	0701	0947	2.8F
	1246	1610	3.3E
	1922	2211	2.9F
19	0115	0434	3.1E
Sa	0740	1030	2.8F
	1325	1645	3.2E
	1957	2250	2.9F
20	0153	0511	3.1E
Su	0823	1111	2.7F
	1408	1722	3.1E
	2035	2333	2.9F
21	0236	0552	3.1E
M	0912	1201	2.6F
	1455	1805	2.9E
	2120		
22		0022	2.9F
Tu	0325	0645	3.1E
	1007	1254	2.5F
	1549	1857	2.8E
	2212		
23		0117	2.9F
W	0419	0748	3.2E
	1109	1351	2.4F
	1650	2008	2.7E
	2311		
24		0215	2.9F
Th	0520	0854	3.3E
	1216	1454	2.5F
	1756	2117	2.7E
25	0017	0316	3.0F
F	0624	0959	3.5E
	1322	1602	2.6F
	1903	2225	3.0E
26	0125	0421	3.1F
Sa	0728	1103	3.8E
	1425	1705	2.9F
	2008	2329	3.3E
27	0230	0525	3.4F
Su	0830	1200	4.2E
	1522	1807	3.3F
	2109		
28		0026	3.7E
M	0331	0624	3.7F
	0929	1256	4.5E
	1615	1904	3.7F
	2205		
29		0121	4.0E
Tu	0428	0721	3.9F
	1024	1349	4.7E
	1706	1956	3.9F
	2257		
30		0214	4.3E
W	0522	0813	4.0F
	1116	1438	4.7E
	1754	2043	4.0F
	2347		
31		0303	4.4E
Th	0613	0904	4.0F
	1205	1527	4.6E
	1841	2132	4.0F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0035	0353	4.4E
F	0705	0952	3.8F
	1254	1614	4.4E
	1927	2216	3.8F
2	0123	0442	4.2E
Sa	0756	1039	3.5F
	1342	1702	4.0E
	2014	2304	3.5F
3	0209	0530	3.9E
Su	0848	1127	3.1F
	1430	1753	3.5E
	2102	2349	3.2F
4	0257	0621	3.5E
M	0942	1218	2.6F
	1520	1844	3.0E
	2152		
5		0038	2.8F
Tu	0347	0715	3.2E
	1040	1311	2.2F
	1613	1938	2.6E
	2246		
6		0129	2.4F
W	0439	0811	2.9E
	1141	1412	1.9F
	1711	2034	2.3E
	2345		
7		0228	2.1F
Th	0534	0910	2.8E
	1243	1527	1.8F
	1813	2134	2.2E
8	0046	0332	2.0F
F	0632	1007	2.7E
	1341	1630	1.8F
	1914	2231	2.2E
9	0144	0436	2.0F
Sa	0728	1059	2.9E
	1433	1728	2.0F
	2011	2326	2.3E
10	0238	0529	2.2F
Su	0819	1150	3.0E
	1520	1813	2.2F
	2100		
11		0013	2.6E
M	0325	0614	2.3F
	0906	1235	3.2E
	1601	1852	2.4F
	2143		
12		0059	2.8E
Tu	0408	0655	2.5F
	0949	1318	3.4E
	1639	1925	2.7F
	2221		
13		0139	3.0E
W	0447	0728	2.7F
	1029	1357	3.5E
	1714	1956	2.9F
	2257		
14		0217	3.2E
Th	0523	0806	2.9F
	1108	1434	3.6E
	1746	2029	3.0F
	2332		
15		0256	3.4E
F	0559	0843	3.0F
	1145	1509	3.6E
	1818	2105	3.2F
16	0008	0329	3.5E
Sa	0636	0923	3.1F
	1223	1544	3.5E
	1850	2142	3.3F
17	0045	0405	3.6E
Su	0715	1004	3.1F
	1303	1619	3.4E
	1926	2223	3.3F
18	0125	0442	3.6E
M	0758	1049	3.0F
	1346	1656	3.3E
	2007	2308	3.2F
19	0209	0527	3.5E
Tu	0847	1136	2.9F
	1434	1743	3.1E
	2053	2358	3.1F
20	0259	0618	3.4E
W	0943	1231	2.7F
	1529	1840	2.9E
	2148		
21		0051	3.0F
Th	0356	0724	3.3E
	1047	1328	2.5F
	1631	1951	2.8E
	2253		
22		0152	2.9F
F	0500	0835	3.3E
	1157	1436	2.5F
	1740	2105	2.8E
23	0005	0259	2.9F
Sa	0608	0943	3.5E
	1306	1545	2.6F
	1849	2212	3.0E
24	0118	0409	3.0F
Su	0716	1047	3.7E
	1410	1654	2.9F
	1955	2316	3.4E
25	0224	0516	3.3F
M	0819	1148	4.0E
	1507	1757	3.3F
	2055		
26		0014	3.8E
Tu	0324	0617	3.6F
	0918	1241	4.3E
	1559	1852	3.6F
	2150		
27		0107	4.1E
W	0418	0712	3.8F
	1012	1332	4.5E
	1648	1941	3.8F
	2240		
28		0156	4.4E
Th	0509	0803	3.9F
	1101	1420	4.5E
	1734	2026	3.9F
	2326		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0243	4.4E
F	0558	0848	3.8F
	1148	1505	4.3E
	1817	2108	3.9F
2	0010	0330	4.3E
Sa	0645	0931	3.6F
	1232	1550	4.1E
	1900	2149	3.6F
3	0053	0416	4.1E
Su	0731	1014	3.3F
	1316	1633	3.7E
	1943	2230	3.3F
4	0136	0501	3.8E
M	0818	1055	2.9F
	1359	1720	3.2E
	2027	2311	3.0F
5	0219	0547	3.4E
Tu	0907	1141	2.5F
	1445	1808	2.8E
	2113	2357	2.6F
6	0304	0638	3.0E
W	1000	1231	2.1F
	1534	1901	2.4E
	2205		
7		0047	2.2F
Th	0354	0732	2.7E
	1058	1326	1.8F
	1629	1956	2.1E
	2304		
8		0141	1.9F
F	0448	0829	2.5E
	1159	1429	1.7F
	1730	2057	2.0E
9	0008	0243	1.8F
Sa	0547	0927	2.5E
	1259	1539	1.7F
	1832	2156	2.1E
10	0109	0349	1.8F
Su	0646	1024	2.6E
	1353	1641	1.9F
	1929	2250	2.3E
11	0205	0450	2.0F
M	0742	1113	2.8E
	1440	1728	2.2F
	2020	2339	2.6E
12	0253	0539	2.3F
Tu	0833	1202	3.1E
	1523	1807	2.4F
	2103		
13		0024	2.9E
W	0337	0620	2.6F
	0918	1245	3.3E
	1601	1843	2.7F
	2143		
14		0105	3.2E
Th	0416	0659	2.9F
	1000	1325	3.5E
	1636	1918	3.0F
	2221		
15		0146	3.5E
F	0454	0737	3.1F
	1040	1404	3.6E
	1710	1955	3.3F
	2259		
16		0222	3.8E
Sa	0532	0816	3.3F
	1120	1440	3.6E
	1744	2034	3.4F
	2337		
17		0259	3.9E
Su	0611	0858	3.4F
	1200	1518	3.6E
	1820	2114	3.5F
18	0017	0338	4.0E
M	0652	0939	3.4F
	1243	1554	3.6E
	1900	2157	3.5F
19	0100	0422	4.0E
Tu	0738	1028	3.3F
	1329	1639	3.4E
	1944	2246	3.4F
20	0147	0511	3.9E
W	0829	1117	3.1F
	1419	1730	3.2E
	2036	2337	3.3F
21	0240	0606	3.7E
Th	0927	1213	2.9F
	1516	1834	3.0E
	2137		
22		0034	3.0F
F	0340	0713	3.5E
	1032	1314	2.7F
	1620	1943	2.9E
	2246		
23		0138	2.9F
Sa	0446	0821	3.4E
	1142	1423	2.7F
	1728	2055	3.0E
24	0001	0247	2.8F
Su	0556	0929	3.5E
	1250	1533	2.8F
	1837	2159	3.2E
25	0112	0402	2.9F
M	0704	1032	3.6E
	1352	1643	3.0F
	1941	2300	3.6E
26	0216	0509	3.2F
Tu	0808	1129	3.9E
	1448	1744	3.3F
	2039	2357	3.9E
27	0314	0610	3.4F
W	0905	1223	4.0E
	1539	1838	3.6F
	2131		
28		0048	4.2E
Th	0406	0701	3.6F
	0957	1312	4.1E
	1626	1921	3.7F
	2218		
29		0137	4.3E
F	0455	0748	3.6F
	1044	1357	4.1E
	1710	2004	3.7F
	2302		
30		0223	4.3E
Sa	0540	0831	3.5F
	1128	1443	3.9E
	1752	2042	3.5F
	2343		
31		0306	4.2E
Su	0624	0910	3.3F
	1209	1526	3.6E
	1833	2120	3.3F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0023	0347	3.9E
M	0707	0948	3.0F
	1250	1607	3.3E
	1913	2158	3.0F
2	0102	0430	3.6E
Tu	0750	1026	2.7F
	1331	1651	2.9E
	1954	2239	2.7F
3	0142	0514	3.3E
W	0834	1107	2.4F
	1414	1734	2.6E
	2038	2320	2.4F
4	0225	0559	2.9E
Th	0922	1152	2.1F
	1501	1825	2.3E
	2127		
5		0007	2.1F
F	0312	0653	2.6E
	1015	1247	1.9F
	1552	1919	2.1E
	2225		
6		0101	1.9F
Sa	0404	0747	2.5E
	1112	1342	1.8F
	1649	2018	2.0E
	2327		
7		0158	1.7F
Su	0502	0845	2.4E
	1209	1439	1.8F
	1747	2116	2.1E
8	0029	0301	1.8F
M	0602	0942	2.5E
	1303	1539	1.9F
	1842	2211	2.4E
9	0126	0401	2.0F
Tu	0700	1034	2.7E
	1352	1630	2.2F
	1933	2300	2.7E
10	0216	0453	2.3F
W	0753	1122	2.9E
	1435	1716	2.5F
	2019	2345	3.1E
11	0301	0539	2.6F
Th	0841	1206	3.1E
	1515	1800	2.8F
	2102		
12		0029	3.4E
F	0343	0623	2.9F
	0927	1249	3.3E
	1553	1840	3.2F
	2143		
13		0112	3.8E
Sa	0424	0709	3.2F
	1010	1328	3.5E
	1631	1921	3.4F
	2225		
14		0151	4.1E
Su	0505	0750	3.4F
	1054	1411	3.6E
	1711	2004	3.6F
	2307		
15		0233	4.3E
M	0548	0833	3.6F
	1138	1452	3.7E
	1753	2049	3.8F
	2352		
16		0318	4.3E
Tu	0633	0921	3.6F
	1225	1537	3.7E
	1838	2136	3.7F
17	0039	0403	4.3E
W	0722	1010	3.5F
	1314	1629	3.6E
	1929	2227	3.6F
18	0130	0456	4.1E
Th	0815	1101	3.4F
	1408	1724	3.4E
	2026	2323	3.4F
19	0226	0556	3.9E
F	0914	1200	3.2F
	1507	1826	3.3E
	2131		
20		0022	3.1F
Sa	0328	0700	3.7E
	1018	1302	3.0F
	1610	1933	3.2E
	2242		
21		0129	2.9F
Su	0434	0805	3.6E
	1124	1409	2.9F
	1716	2039	3.3E
	2353		
22		0239	2.9F
M	0542	0910	3.5E
	1229	1519	3.0F
	1822	2144	3.5E
23	0102	0355	2.9F
Tu	0649	1012	3.6E
	1329	1625	3.1F
	1923	2243	3.7E
24	0203	0500	3.1F
W	0752	1109	3.7E
	1425	1724	3.3F
	2019	2339	3.9E
25	0259	0557	3.2F
Th	0848	1201	3.7E
	1516	1815	3.4F
	2109		
26		0030	4.1E
F	0351	0647	3.3F
	0939	1249	3.7E
	1602	1902	3.4F
	2154		
27		0115	4.1E
Sa	0438	0732	3.3F
	1025	1337	3.6E
	1646	1941	3.3F
	2236		
28		0158	4.1E
Su	0522	0813	3.1F
	1107	1419	3.4E
	1728	2018	3.2F
	2316		
29		0242	3.9E
M	0604	0849	3.0F
	1147	1501	3.2E
	1807	2051	3.0F
	2354		
30		0322	3.7E
Tu	0645	0924	2.8F
	1227	1543	2.9E
	1846	2129	2.7F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THE RACE, LONG ISLAND SOUND, 1991

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0031	0404	3.4E	16	0023	0350	4.5E
W	0724	1000	2.6F	Th	0708	0953	3.7F
	1306	1624	2.7E		1301	1618	3.8E
	1926	2207	2.5F		1918	2213	3.7F
2	0110	0445	3.2E	17	0117	0446	4.4E
Th	0805	1041	2.4F	F	0802	1049	3.6F
	1347	1707	2.5E		1357	1714	3.7E
	2008	2250	2.3F		2018	2308	3.5F
3	0151	0528	2.9E	18	0214	0543	4.2E
F	0848	1123	2.2F	Sa	0900	1146	3.5F
	1431	1756	2.3E		1455	1815	3.6E
	2055	2337	2.1F		2123		
4	0236	0616	2.7E	19		0009	3.3F
Sa	0934	1209	2.1F	Su	0315	0644	3.9E
	1519	1844	2.2E		1000	1247	3.3F
	2148				1556	1917	3.6E
5		0026	1.9F	20	2231	0116	3.1F
Su	0325	0707	2.5E	M	0418	0745	3.7E
	1024	1300	2.0F		1102	1351	3.2F
	1609	1939	2.2E		1658	2020	3.6E
	2246				2339		
6		0121	1.8F	21		0225	2.9F
M	0420	0800	2.4E	Tu	0523	0846	3.5E
	1116	1353	2.0F		1203	1459	3.1F
	1702	2033	2.3E		1800	2122	3.6E
	2345						
7		0217	1.9F	22	0044	0336	2.9F
Tu	0517	0854	2.5E	W	0628	0947	3.4E
	1207	1448	2.1F		1302	1602	3.1F
	1755	2127	2.5E		1859	2221	3.7E
8	0041	0314	2.0F	23	0145	0440	2.9F
W	0615	0947	2.6E	Th	0730	1044	3.4E
	1256	1539	2.3F		1358	1659	3.1F
	1845	2218	2.8E		1954	2312	3.8E
9	0133	0407	2.3F	24	0241	0539	2.9F
Th	0710	1036	2.7E	F	0827	1138	3.3E
	1342	1627	2.6F		1450	1750	3.1F
	1934	2306	3.2E		2044		
10	0222	0500	2.6F	25		0007	3.9E
F	0802	1126	3.0E	Sa	0332	0630	2.9F
	1427	1716	3.0F		0918	1227	3.2E
	2021	2355	3.6E		1538	1836	3.1F
11	0308	0549	2.9F	26	2129	0052	3.9E
Sa	0852	1213	3.2E	Su	0419	0713	2.9F
	1511	1804	3.3F		1004	1312	3.1E
	2107				1622	1917	3.0F
12		0036	4.0E	27	2211	0136	3.8E
Su	0354	0635	3.2F	M	0503	0754	2.8F
	0940	1259	3.4E		1047	1355	3.0E
	1556	1850	3.6F		1704	1954	2.8F
	2154				2250		
13		0124	4.3E	28		0219	3.7E
M	0440	0724	3.5F	Tu	0544	0831	2.7F
	1029	1345	3.6E		1127	1439	2.9E
	1642	1937	3.8F		1745	2027	2.7F
	2242				2328		
14		0210	4.5E	29		0259	3.5E
Tu	0527	0813	3.7F	W	0623	0903	2.6F
	1118	1432	3.8E		1205	1521	2.7E
	1731	2026	3.9F		1823	2103	2.6F
	2331						
15		0259	4.6E	30	0005	0338	3.3E
W	0616	0902	3.7F	Th	0701	0937	2.5F
	1209	1522	3.8E		1244	1601	2.6E
	1822	2118	3.9F		1902	2142	2.4F
				31	0043	0419	3.2E
				F	0739	1013	2.4F
					1323	1642	2.5E
					1943	2223	2.3F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0123	0458	3.0E	16	0159	0527	4.3E
Sa	0817	1055	2.4F	Su	0840	1130	3.7F
	1403	1724	2.4E		1438	1757	3.9E
	2026	2308	2.2F		2108	2352	3.4F
2	0205	0541	2.8E	17	0257	0621	4.0E
Su	0856	1138	2.3F	M	0937	1227	3.5F
	1446	1809	2.4E		1535	1856	3.8E
	2113	2353	2.1F		2212		
3	0250	0622	2.6E	18		0055	3.1F
M	0938	1225	2.3F	Tu	0357	0722	3.7E
	1531	1858	2.4E		1035	1326	3.3F
	2205				1633	1956	3.7E
4		0045	2.0F	19	2317	0201	2.9F
Tu	0340	0714	2.5E	W	0459	0821	3.4E
	1023	1312	2.3F		1134	1430	3.1F
	1618	1947	2.5E		1732	2055	3.6E
	2259						
5		0138	2.0F	20	0021	0310	2.7F
W	0434	0805	2.5E	Th	0601	0919	3.2E
	1110	1401	2.4F		1232	1533	3.0F
	1708	2040	2.7E		1830	2152	3.6E
	2355						
6		0231	2.1F	21	0122	0415	2.6F
Th	0530	0858	2.5E	F	0703	1016	3.0E
	1200	1453	2.5F		1329	1629	2.9F
	1800	2134	3.0E		1925	2247	3.6E
7	0051	0328	2.3F	22	0219	0514	2.6F
F	0627	0952	2.7E	Sa	0801	1111	2.9E
	1251	1546	2.8F		1423	1726	2.8F
	1852	2225	3.3E		2016	2339	3.6E
8	0145	0424	2.5F	23	0311	0606	2.6F
Sa	0724	1045	2.9E	Su	0855	1202	2.8E
	1343	1639	3.0F		1513	1811	2.7F
	1944	2319	3.7E		2103		
9	0237	0515	2.9F	24		0030	3.5E
Su	0820	1139	3.1E	M	0359	0655	2.6F
	1435	1732	3.3F		0943	1249	2.8E
	2037				1600	1856	2.7F
10		0010	4.0E	25	2146	0111	3.5E
M	0328	0608	3.2F	Tu	0443	0736	2.6F
	0914	1230	3.4E		1026	1334	2.8E
	1527	1824	3.6F		1643	1933	2.6F
	2129				2226		
11		0101	4.3E	26		0156	3.5E
Tu	0419	0702	3.5F	W	0523	0811	2.6F
	1007	1324	3.6E		1105	1418	2.7E
	1621	1917	3.8F		1724	2006	2.6F
	2222				2305		
12		0152	4.6E	27		0236	3.4E
W	0509	0754	3.7F	Th	0600	0842	2.6F
	1100	1415	3.9E		1143	1457	2.7E
	1715	2010	4.0F		1802	2042	2.5F
	2315				2342		
13		0243	4.7E	28		0316	3.3E
Th	0600	0846	3.9F	F	0636	0915	2.6F
	1153	1508	4.0E		1219	1537	2.7E
	1810	2103	4.0F		1840	2119	2.5F
14	0009	0336	4.7E	29	0019	0353	3.2E
F	0652	0939	3.9F	Sa	0710	0947	2.6F
	1247	1603	4.1E		1256	1616	2.7E
	1907	2158	3.9F		1918	2157	2.4F
15	0103	0430	4.6E	30	0057	0432	3.1E
Sa	0746	1033	3.9F	Su	0744	1026	2.6F
	1342	1659	4.0E		1333	1655	2.7E
	2007	2255	3.7F		1957	2240	2.4F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

JULY

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0137	0507	3.0E	16	0235	0557	4.0E
M	0819	1107	2.6F	Tu	0909	1159	3.6F
	1411	1736	2.7E		1507	1828	3.9E
	2039	2323	2.3F		2147		
2	0219	0544	2.8E	17		0031	3.1F
Tu	0856	1150	2.6F	W	0330	0653	3.6E
	1452	1815	2.7E		1004	1254	3.3F
	2126				1602	1926	3.7E
					2249		
3		0010	2.3F	18		0130	2.7F
W	0304	0621	2.7E	Th	0428	0749	3.2E
	0936	1234	2.6F		1101	1355	2.9F
	1537	1858	2.8E		1658	2024	3.4E
	2217				2352		
4		0101	2.2F	19		0239	2.4F
Th	0355	0710	2.6E	F	0529	0848	2.9E
	1022	1323	2.6F		1200	1455	2.7F
	1626	1954	2.9E		1756	2124	3.3E
	2313						
5		0154	2.2F	20	0054	0346	2.3F
F	0450	0807	2.6E	Sa	0631	0946	2.6E
	1114	1418	2.7F		1259	1558	2.5F
	1720	2052	3.1E		1852	2221	3.2E
6	0013	0254	2.3F	21	0153	0446	2.2F
Sa	0550	0909	2.6E	Su	0732	1044	2.6E
	1210	1511	2.8F		1356	1657	2.4F
	1817	2151	3.3E		1946	2313	3.2E
7	0113	0349	2.5F	22	0246	0545	2.3F
Su	0652	1012	2.8E	M	0828	1136	2.6E
	1309	1608	3.0F		1449	1748	2.4F
	1915	2250	3.6E		2036		
8	0211	0449	2.8F	23		0003	3.3E
M	0753	1113	3.1E	Tu	0334	0632	2.4F
	1409	1706	3.3F		0917	1227	2.6E
	2013	2346	4.0E		1537	1834	2.5F
					2121		
9	0307	0547	3.1F	24		0048	3.3E
Tu	0852	1211	3.4E	W	0417	0709	2.5F
	1509	1803	3.6F		1000	1312	2.7E
	2111				1621	1909	2.5F
					2203		
10		0042	4.3E	25		0131	3.4E
W	0401	0643	3.5F	Th	0457	0748	2.6F
	0949	1305	3.7E		1039	1351	2.8E
	1606	1900	3.9F		1701	1946	2.6F
	2206				2242		
11		0136	4.6E	26		0211	3.4E
Th	0453	0739	3.8F	F	0533	0817	2.6F
	1043	1400	4.0E		1116	1432	2.9E
	1703	1955	4.0F		1739	2019	2.6F
	2301				2319		
12		0227	4.8E	27		0250	3.4E
F	0544	0831	4.0F	Sa	0607	0846	2.7F
	1137	1453	4.3E		1150	1510	3.0E
	1758	2049	4.1F		1815	2055	2.7F
	2354				2356		
13		0319	4.8E	28		0325	3.3E
Sa	0634	0922	4.1F	Su	0639	0918	2.8F
	1229	1546	4.3E		1225	1545	3.0E
	1854	2144	4.0F		1851	2132	2.7F
14	0047	0411	4.6E	29	0032	0401	3.2E
Su	0725	1014	4.0F	M	0710	0954	2.8F
	1321	1639	4.3E		1300	1621	3.0E
	1950	2238	3.8F		1927	2213	2.7F
15	0141	0504	4.4E	30	0110	0434	3.1E
M	0816	1107	3.9F	Tu	0742	1033	2.8F
	1414	1733	4.2E		1336	1656	3.0E
	2048	2333	3.5F		2007	2256	2.6F
				31	0150	0507	3.0E
				W	0817	1116	2.8F
					1416	1733	3.0E
					2051	2339	2.5F

AUGUST

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0234	0540	2.8E	16		0054	2.5F
Th	0858	1159	2.8F	F	0355	0716	2.9E
	1500	1818	3.0E		1027	1314	2.6F
	2142				1620	1951	3.2E
					2319		
2		0029	2.4F	17		0157	2.2F
F	0323	0629	2.7E	Sa	0454	0815	2.5E
	0945	1250	2.7F		1127	1415	2.3F
	1551	1915	3.1E		1717	2047	2.9E
	2239						
3		0124	2.3F	18	0021	0306	2.0F
Sa	0419	0729	2.6E	Su	0556	0915	2.3E
	1040	1345	2.7F		1229	1521	2.1F
	1648	2018	3.1E		1816	2148	2.9E
	2343						
4		0225	2.4F	19	0121	0415	2.0F
Su	0522	0844	2.6E	M	0659	1014	2.3E
	1142	1445	2.8F		1328	1625	2.1F
	1750	2125	3.3E		1913	2243	2.9E
5	0048	0326	2.5F	20	0215	0510	2.1F
M	0628	0950	2.8E	Tu	0756	1107	2.4E
	1249	1546	3.0F		1423	1716	2.2F
	1854	2231	3.6E		2005	2335	3.0E
6	0151	0430	2.8F	21	0303	0600	2.3F
Tu	0734	1057	3.1E	W	0845	1156	2.6E
	1356	1649	3.2F		1511	1807	2.4F
	1957	2329	3.9E		2053		
7	0249	0531	3.1F	22		0020	3.2E
W	0835	1155	3.5E	Th	0345	0639	2.5F
	1458	1751	3.6F		0928	1243	2.8E
	2057				1555	1844	2.5F
					2136		
8		0026	4.3E	23		0101	3.3E
Th	0344	0630	3.5F	F	0424	0712	2.6F
	0933	1252	3.9E		1006	1321	3.0E
	1556	1848	3.8F		1634	1919	2.7F
	2153				2216		
9		0118	4.6E	24		0142	3.4E
F	0435	0724	3.9F	Sa	0459	0741	2.8F
	1027	1345	4.3E		1042	1402	3.2E
	1652	1943	4.1F		1711	1954	2.8F
	2247				2253		
10		0209	4.7E	25		0220	3.4E
Sa	0525	0814	4.1F	Su	0532	0812	2.9F
	1118	1436	4.5E		1117	1438	3.3E
	1745	2035	4.1F		1747	2027	2.9F
	2339				2330		
11		0300	4.7E	26		0254	3.4E
Su	0613	0904	4.1F	M	0603	0847	3.0F
	1208	1526	4.5E		1151	1514	3.4E
	1837	2125	4.0F		1822	2105	3.0F
12	0029	0349	4.5E	27	0007	0328	3.3E
M	0701	0950	4.0F	Tu	0634	0923	3.1F
	1257	1617	4.4E		1226	1550	3.4E
	1930	2216	3.7F		1858	2145	2.9F
13	0119	0438	4.2E	28	0044	0403	3.2E
Tu	0749	1038	3.8F	W	0707	1002	3.1F
	1346	1708	4.2E		1303	1623	3.4E
	2023	2307	3.4F		1938	2226	2.9F
14	0209	0528	3.8E	29	0125	0436	3.1E
W	0839	1127	3.4F	Th	0744	1045	3.0F
	1435	1759	3.8E		1344	1701	3.4E
	2119	2357	2.9F		2023	2313	2.7F
15	0300	0622	3.3E	30	0209	0514	2.9E
Th	0931	1218	3.0F	F	0827	1130	3.0F
	1526	1853	3.5E		1430	1749	3.3E
	2217				2115		
				31		0004	2.6F
				Sa	0300	0605	2.8E
					0918	1222	2.8F
					1524	1850	3.2E
					2215		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0101	2.5F
Su	0359	0714	2.6E
	1019	1323	2.8F
	1625	2000	3.2E
	2321		
2		0201	2.4F
M	0505	0827	2.7E
	1129	1426	2.8F
	1732	2109	3.3E
3	0030	0308	2.6F
Tu	0613	0939	2.9E
	1241	1533	2.9F
	1840	2215	3.5E
4	0134	0415	2.8F
W	0719	1041	3.3E
	1349	1641	3.2F
	1945	2313	3.9E
5	0233	0519	3.2F
Th	0820	1142	3.7E
	1451	1742	3.5F
	2045		
6		0010	4.2E
F	0326	0617	3.6F
	0916	1236	4.1E
	1547	1839	3.8F
	2141		
7		0101	4.4E
Sa	0416	0708	3.9F
	1008	1327	4.4E
	1639	1931	4.0F
	2232		
8		0152	4.5E
Su	0504	0754	4.0F
	1057	1416	4.6E
	1730	2019	4.0F
	2321		
9		0239	4.5E
M	0550	0840	4.0F
	1144	1504	4.6E
	1819	2106	3.8F
10	0008	0327	4.2E
Tu	0635	0926	3.9F
	1229	1550	4.4E
	1908	2152	3.6F
11	0055	0413	3.9E
W	0720	1008	3.6F
	1315	1639	4.0E
	1957	2238	3.2F
12	0141	0459	3.4E
Th	0807	1055	3.2F
	1400	1727	3.6E
	2048	2326	2.7F
13	0230	0550	3.0E
F	0857	1140	2.7F
	1448	1818	3.2E
	2143		
14		0018	2.3F
Sa	0321	0644	2.6E
	0952	1232	2.3F
	1539	1914	2.9E
	2242		
15		0116	2.0F
Su	0417	0740	2.3E
	1052	1329	2.0F
	1635	2013	2.7E
	2343		
16		0220	1.8F
M	0518	0842	2.2E
	1156	1435	1.9F
	1734	2112	2.6E
17	0042	0328	1.8F
Tu	0619	0940	2.2E
	1257	1542	1.9F
	1834	2207	2.7E
18	0136	0430	2.0F
W	0716	1034	2.4E
	1352	1641	2.0F
	1929	2300	2.8E
19	0224	0519	2.2F
Th	0806	1124	2.7E
	1441	1732	2.3F
	2019	2345	3.0E
20	0307	0556	2.5F
F	0849	1207	3.0E
	1524	1811	2.5F
	2104		
21		0028	3.2E
Sa	0345	0629	2.7F
	0928	1250	3.2E
	1604	1846	2.7F
	2145		
22		0109	3.3E
Su	0420	0704	2.9F
	1005	1329	3.5E
	1641	1921	2.9F
	2224		
23		0147	3.4E
M	0454	0738	3.1F
	1041	1407	3.6E
	1717	1958	3.1F
	2303		
24		0222	3.4E
Tu	0526	0813	3.2F
	1117	1442	3.8E
	1754	2039	3.2F
	2341		
25		0258	3.4E
W	0600	0852	3.3F
	1154	1518	3.8E
	1832	2120	3.2F
26	0021	0334	3.3E
Th	0636	0935	3.3F
	1235	1557	3.8E
	1915	2203	3.1F
27	0104	0412	3.2E
F	0718	1019	3.2F
	1319	1639	3.7E
	2002	2251	3.0F
28	0151	0501	3.1E
Sa	0806	1108	3.1F
	1409	1733	3.5E
	2056	2343	2.8F
29	0245	0558	2.9E
Su	0903	1205	2.9F
	1506	1834	3.4E
	2157		
30		0041	2.7F
M	0346	0706	2.8E
	1010	1306	2.8F
	1610	1945	3.3E
	2305		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0148	2.6F
Tu	0453	0817	2.9E
	1123	1412	2.8F
	1719	2053	3.4E
2	0012	0255	2.7F
W	0601	0926	3.1E
	1236	1523	2.9F
	1828	2159	3.5E
3	0116	0402	3.0F
Th	0705	1027	3.5E
	1342	1631	3.1F
	1933	2258	3.8E
4	0213	0505	3.3F
F	0805	1126	3.9E
	1442	1735	3.4F
	2032	2351	4.0E
5	0306	0600	3.6F
Sa	0859	1219	4.3E
	1536	1830	3.7F
	2127		
6		0043	4.2E
Su	0355	0649	3.8F
	0948	1308	4.5E
	1626	1918	3.8F
	2216		
7		0130	4.2E
M	0442	0733	3.9F
	1035	1357	4.5E
	1714	2004	3.7F
	2303		
8		0219	4.1E
Tu	0526	0816	3.8F
	1119	1441	4.4E
	1801	2047	3.5F
	2348		
9		0302	3.8E
W	0610	0900	3.5F
	1202	1524	4.2E
	1846	2130	3.3F
10	0032	0347	3.5E
Th	0653	0941	3.2F
	1244	1611	3.8E
	1932	2211	2.9F
11	0115	0433	3.1E
F	0737	1022	2.9F
	1326	1656	3.5E
	2019	2255	2.6F
12	0200	0521	2.7E
Sa	0824	1105	2.5F
	1411	1747	3.1E
	2108	2343	2.3F
13	0248	0612	2.4E
Su	0917	1156	2.1F
	1459	1838	2.8E
	2201		
14		0032	2.0F
M	0341	0706	2.2E
	1015	1250	1.9F
	1552	1932	2.5E
	2258		
15		0130	1.9F
Tu	0437	0805	2.1E
	1118	1348	1.7F
	1650	2030	2.5E
	2355		
16		0230	1.9F
W	0535	0901	2.2E
	1219	1449	1.8F
	1749	2126	2.5E
17	0048	0329	2.0F
Th	0630	0956	2.4E
	1315	1551	1.9F
	1846	2217	2.6E
18	0137	0420	2.2F
F	0720	1047	2.7E
	1404	1644	2.2F
	1939	2305	2.8E
19	0221	0503	2.5F
Sa	0805	1132	3.0E
	1449	1729	2.5F
	2027	2351	3.0E
20	0300	0545	2.7F
Su	0846	1214	3.4E
	1530	1810	2.7F
	2111		
21		0032	3.2E
M	0338	0623	3.0F
	0926	1255	3.7E
	1609	1851	3.0F
	2153		
22		0113	3.3E
Tu	0414	0702	3.2F
	1005	1333	3.9E
	1648	1931	3.2F
	2235		
23		0153	3.4E
W	0451	0745	3.4F
	1046	1414	4.1E
	1728	2013	3.3F
	2317		
24		0229	3.5E
Th	0530	0826	3.5F
	1127	1455	4.1E
	1810	2057	3.4F
25	0000	0312	3.4E
F	0612	0909	3.5F
	1212	1538	4.1E
	1856	2145	3.4F
26	0047	0359	3.4E
Sa	0700	1000	3.5F
	1300	1627	4.0E
	1946	2233	3.3F
27	0138	0451	3.3E
Su	0754	1051	3.3F
	1354	1723	3.8E
	2041	2327	3.1F
28	0234	0552	3.2E
M	0855	1149	3.1F
	1453	1824	3.6E
	2142		
29		0028	3.0F
Tu	0335	0657	3.1E
	1004	1252	2.9F
	1557	1929	3.5E
	2247		
30		0132	2.9F
W	0440	0806	3.2E
	1116	1401	2.8F
	1705	2035	3.5E
	2352		
31		0240	3.0F
Th	0545	0909	3.4E
	1226	1512	2.9F
	1813	2138	3.5E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0054	0346	3.1F
	0648	1012	3.7E
	1331	1621	3.1F
	1918	2238	3.6E
2 Sa	0151	0446	3.3F
	0746	1109	4.0E
	1429	1722	3.3F
	2017	2331	3.7E
3 Su	0245	0542	3.5F
	0839	1201	4.2E
	1523	1817	3.4F
	2111		
4 M		0024	3.8E
	0334	0631	3.6F
	0928	1250	4.3E
	1612	1905	3.4F
	2200		
5 Tu		0111	3.7E
	0421	0717	3.5F
	1013	1337	4.3E
	1659	1950	3.3F
	2246		
6 W		0156	3.6E
	0505	0755	3.4F
	1056	1420	4.2E
	1744	2031	3.2F
	2329		
7 Th		0242	3.4E
	0548	0836	3.2F
	1136	1505	3.9E
	1826	2109	3.0F
8 F	0011	0323	3.1E
	0629	0914	2.9F
	1216	1546	3.6E
	1908	2145	2.7F
9 Sa	0052	0407	2.8E
	0712	0953	2.6F
	1256	1630	3.3E
	1951	2226	2.5F
10 Su	0134	0453	2.6E
	0756	1035	2.4F
	1337	1714	3.0E
	2034	2309	2.3F
11 M	0218	0540	2.4E
	0844	1122	2.1F
	1422	1802	2.8E
	2120	2356	2.1F
12 Tu	0305	0631	2.2E
	0937	1211	1.9F
	1510	1851	2.6E
	2209		
13 W		0047	2.0F
	0355	0723	2.2E
	1035	1306	1.8F
	1604	1945	2.4E
	2301		
14 Th		0138	2.0F
	0447	0818	2.3E
	1133	1401	1.8F
	1701	2039	2.4E
	2352		
15 F		0231	2.1F
	0540	0911	2.5E
	1230	1458	1.9F
	1758	2132	2.5E
16 Sa	0041	0322	2.2F
	0630	1002	2.7E
	1322	1552	2.1F
	1853	2221	2.6E
17 Su	0128	0412	2.5F
	0718	1051	3.1E
	1410	1643	2.4F
	1945	2309	2.8E
18 M	0211	0457	2.7F
	0804	1135	3.4E
	1455	1731	2.7F
	2034	2355	3.0E
19 Tu	0254	0544	3.0F
	0849	1220	3.7E
	1538	1817	3.0F
	2121		
20 W		0039	3.2E
	0337	0630	3.3F
	0933	1304	4.0E
	1622	1905	3.2F
	2208		
21 Th		0125	3.4E
	0420	0716	3.6F
	1019	1348	4.3E
	1706	1950	3.4F
	2255		
22 F		0211	3.5E
	0506	0803	3.7F
	1106	1434	4.4E
	1752	2037	3.6F
	2343		
23 Sa		0256	3.6E
	0555	0852	3.8F
	1155	1521	4.4E
	1840	2126	3.6F
24 Su	0033	0347	3.7E
	0647	0944	3.7F
	1247	1613	4.3E
	1931	2219	3.6F
25 M	0126	0442	3.7E
	0744	1037	3.6F
	1341	1709	4.2E
	2025	2311	3.5F
26 Tu	0222	0540	3.6E
	0847	1136	3.3F
	1440	1809	3.9E
	2124		
27 W		0012	3.4F
	0321	0644	3.6E
	0953	1237	3.1F
	1542	1910	3.7E
	2225		
28 Th		0113	3.2F
	0422	0745	3.6E
	1102	1345	3.0F
	1647	2013	3.5E
	2327		
29 F		0217	3.2F
	0524	0848	3.6E
	1209	1455	2.9F
	1753	2114	3.4E
30 Sa	0028	0324	3.2F
	0626	0948	3.8E
	1314	1604	2.9F
	1858	2215	3.4E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0127	0426	3.2F
	0724	1047	3.9E
	1413	1706	3.0F
	1958	2310	3.4E
2 M	0222	0521	3.2F
	0818	1140	4.0E
	1508	1803	3.0F
	2054		
3 Tu		0004	3.3E
	0314	0612	3.2F
	0907	1231	4.0E
	1558	1856	3.0F
	2144		
4 W		0052	3.3E
	0401	0658	3.1F
	0953	1318	4.0E
	1644	1939	3.0F
	2230		
5 Th		0138	3.2E
	0446	0739	3.0F
	1035	1402	3.9E
	1727	2017	2.9F
	2312		
6 F		0221	3.1E
	0529	0817	2.9F
	1114	1443	3.7E
	1808	2053	2.8F
	2352		
7 Sa		0305	2.9E
	0610	0853	2.7F
	1152	1523	3.5E
	1846	2126	2.7F
8 Su	0030	0347	2.8E
	0650	0929	2.5F
	1230	1603	3.3E
	1924	2203	2.6F
9 M	0109	0427	2.6E
	0730	1008	2.4F
	1309	1645	3.1E
	2002	2240	2.5F
10 Tu	0148	0511	2.5E
	0813	1051	2.2F
	1350	1724	2.9E
	2040	2321	2.4F
11 W	0230	0552	2.4E
	0859	1136	2.1F
	1434	1809	2.7E
	2121		
12 Th		0006	2.3F
	0313	0641	2.4E
	0948	1225	2.0F
	1521	1854	2.5E
	2205		
13 F		0053	2.3F
	0400	0729	2.4E
	1042	1317	1.9F
	1613	1945	2.4E
	2251		
14 Sa		0142	2.3F
	0449	0823	2.5E
	1139	1410	1.9F
	1709	2038	2.4E
	2341		
15 Su		0233	2.3F
	0539	0915	2.7E
	1234	1507	2.0F
	1806	2134	2.4E
16 M	0032	0325	2.5F
	0631	1009	3.0E
	1329	1602	2.3F
	1903	2225	2.6E
17 Tu	0123	0418	2.7F
	0723	1100	3.4E
	1420	1654	2.5F
	1959	2319	2.8E
18 W	0215	0510	3.0F
	0815	1151	3.7E
	1510	1748	2.9F
	2052		
19 Th		0010	3.1E
	0306	0601	3.3F
	0907	1240	4.1E
	1558	1839	3.2F
	2144		
20 F		0101	3.4E
	0357	0654	3.6F
	0958	1328	4.4E
	1646	1930	3.5F
	2235		
21 Sa		0152	3.7E
	0449	0745	3.9F
	1049	1417	4.6E
	1735	2020	3.8F
	2326		
22 Su		0243	3.9E
	0542	0836	4.0F
	1141	1508	4.7E
	1824	2112	3.9F
23 M	0018	0334	4.1E
	0637	0929	4.0F
	1234	1600	4.6E
	1914	2203	4.0F
24 Tu	0110	0429	4.1E
	0733	1024	3.8F
	1328	1653	4.5E
	2007	2256	3.9F
25 W	0204	0524	4.1E
	0833	1120	3.6F
	1424	1749	4.2E
	2102	2352	3.7F
26 Th	0300	0621	4.0E
	0936	1218	3.3F
	1523	1847	3.9E
	2159		
27 F		0050	3.5F
	0358	0722	3.8E
	1041	1323	3.0F
	1624	1948	3.5E
	2259		
28 Sa		0151	3.2F
	0458	0824	3.7E
	1147	1432	2.8F
	1728	2047	3.3E
29 Su	0000	0256	3.0F
	0559	0925	3.6E
	1252	1544	2.6F
	1833	2147	3.1E
30 M	0101	0401	2.9F
	0658	1024	3.6E
	1353	1647	2.6F
	1937	2246	3.0E
31 Tu	0159	0503	2.9F
	0755	1119	3.6E
	1450	1748	2.6F
	2035	2341	2.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0305	0608	0.8F
	0947	1206	1.0E
	1532	1838	0.8F
	2213		
2 W		0032	1.0E
	0359	0706	0.8F
	1040	1257	1.0E
	1627	1933	0.8F
	2307		
3 Th		0122	1.0E
	0455	0758	0.8F
	1132	1347	1.0E
	1722	2023	0.8F
	2359		
4 F		0212	0.9E
	0549	0846	0.8F
	1225	1438	0.9E
	1815	2110	0.7F
5 Sa	0052	0303	0.9E
	0640	0935	0.7F
	1319	1529	0.9E
	1905	2200	0.7F
6 Su	0146	0353	0.8E
	0729	1027	0.6F
	1412	1618	0.8E
	1953	2252	0.6F
7 M	0239	0442	0.8E
	0817	1118	0.6F
	1505	1706	0.7E
	2043	2342	0.6F
8 Tu	0331	0530	0.7E
	0911	1203	0.5F
	1557	1755	0.7E
	2139		
9 W		0023	0.5F
	0424	0621	0.7E
	1005	1242	0.5F
	1651	1847	0.6E
	2229		
10 Th		0100	0.5F
	0518	0713	0.6E
	1052	1321	0.5F
	1745	1939	0.6E
	2314		
11 F		0145	0.5F
	0610	0803	0.6E
	1135	1415	0.5F
	1835	2028	0.6E
	2357		
12 Sa		0250	0.5F
	0659	0852	0.6E
	1221	1519	0.5F
	1921	2116	0.6E
13 Su	0049	0343	0.5F
	0744	0940	0.6E
	1316	1604	0.5F
	2006	2205	0.7E
14 M	0140	0424	0.5F
	0828	1030	0.7E
	1401	1643	0.5F
	2050	2255	0.7E
15 Tu	0220	0504	0.5F
	0911	1120	0.7E
	1436	1725	0.5F
	2132	2344	0.7E
16 W	0252	0549	0.5F
	0951	1207	0.8E
	1508	1812	0.6F
	2210		
17 Th		0030	0.8E
	0324	0636	0.6F
	1027	1253	0.8E
	1541	1900	0.6F
	2243		
18 F		0116	0.8E
	0359	0722	0.6F
	1059	1339	0.8E
	1618	1944	0.6F
	2314		
19 Sa		0203	0.8E
	0439	0806	0.6F
	1129	1427	0.8E
	1701	2027	0.7F
	2347		
20 Su		0252	0.8E
	0523	0849	0.7F
	1207	1517	0.8E
	1746	2111	0.7F
21 M	0029	0341	0.9E
	0609	0935	0.7F
	1254	1607	0.9E
	1833	2200	0.7F
22 Tu	0122	0431	0.9E
	0659	1027	0.7F
	1351	1657	0.9E
	1926	2256	0.7F
23 W	0221	0522	0.9E
	0754	1125	0.7F
	1452	1749	0.9E
	2024	2353	0.7F
24 Th	0325	0616	0.9E
	0857	1221	0.7F
	1558	1844	0.9E
	2131		
25 F		0047	0.7F
	0433	0712	0.9E
	1006	1315	0.7F
	1708	1940	0.9E
	2240		
26 Sa		0146	0.7F
	0540	0808	0.9E
	1113	1419	0.7F
	1812	2035	0.9E
	2345		
27 Su		0254	0.7F
	0642	0902	0.9E
	1219	1527	0.7F
	1912	2129	0.9E
28 M	0054	0358	0.8F
	0740	0956	0.9E
	1327	1627	0.8F
	2009	2224	0.9E
29 Tu	0157	0456	0.8F
	0836	1051	0.9E
	1426	1725	0.8F
	2103	2318	1.0E
30 W	0252	0555	0.8F
	0930	1144	1.0E
	1518	1824	0.8F
	2156		
31 Th		0009	1.0E
	0343	0650	0.8F
	1021	1233	1.0E
	1608	1915	0.8F
	2247		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0057	1.0E
	0434	0739	0.8F
	1110	1321	0.9E
	1659	2002	0.8F
	2335		
2 Sa		0145	0.9E
	0524	0823	0.7F
	1159	1410	0.9E
	1748	2044	0.7F
3 Su	0023	0234	0.9E
	0610	0904	0.7F
	1248	1459	0.8E
	1833	2123	0.7F
4 M	0114	0323	0.8E
	0655	0945	0.6F
	1339	1547	0.8E
	1917	2207	0.6F
5 Tu	0205	0411	0.8E
	0737	1031	0.6F
	1430	1635	0.7E
	1958	2256	0.5F
6 W	0256	0459	0.7E
	0821	1119	0.5F
	1521	1723	0.7E
	2046	2343	0.5F
7 Th	0347	0548	0.7E
	0914	1204	0.5F
	1613	1814	0.6E
	2141		
8 F		0025	0.5F
	0441	0640	0.6E
	1008	1246	0.5F
	1709	1907	0.6E
	2233		
9 Sa		0108	0.5F
	0536	0733	0.6E
	1056	1331	0.5F
	1802	1958	0.6E
	2318		
10 Su		0158	0.5F
	0627	0823	0.6E
	1139	1430	0.5F
	1851	2048	0.6E
11 M	0003	0303	0.5F
	0715	0912	0.7E
	1231	1532	0.5F
	1937	2137	0.7E
12 Tu	0102	0356	0.5F
	0758	1002	0.7E
	1328	1618	0.5F
	2019	2227	0.7E
13 W	0150	0439	0.5F
	0840	1052	0.7E
	1409	1701	0.6F
	2101	2317	0.8E
14 Th	0226	0523	0.6F
	0921	1141	0.8E
	1443	1745	0.6F
	2140		
15 F		0004	0.8E
	0300	0609	0.6F
	0958	1227	0.8E
	1518	1833	0.6F
	2216		
16 Sa	0337	0050	0.9E
		0656	0.7F
	1032	1313	0.9E
	1557	1919	0.7F
	2249		
17 Su		0137	0.9E
	0418	0742	0.7F
	1108	1401	0.9E
	1640	2005	0.7F
	2327		
18 M		0225	0.9E
	0503	0827	0.7F
	1147	1450	0.9E
	1727	2050	0.7F
19 Tu	0009	0316	0.9E
	0550	0913	0.7F
	1235	1541	0.9E
	1816	2138	0.7F
20 W	0104	0407	0.9E
	0641	1004	0.7F
	1336	1632	0.9E
	1909	2233	0.7F
21 Th	0207	0458	0.9E
	0738	1103	0.7F
	1439	1725	0.9E
	2009	2332	0.7F
22 F	0312	0552	0.9E
	0842	1201	0.7F
	1547	1820	0.8E
	2118		
23 Sa		0029	0.7F
	0421	0649	0.8E
	0955	1257	0.7F
	1656	1917	0.8E
	2230		
24 Su		0127	0.7F
	0528	0745	0.8E
	1104	1401	0.7F
	1759	2013	0.8E
	2336		
25 M		0239	0.7F
	0629	0840	0.9E
	1208	1516	0.7F
	1859	2107	0.9E
26 Tu	0041	0348	0.7F
	0727	0934	0.9E
	1314	1618	0.7F
	1953	2201	0.9E
27 W	0144	0445	0.7F
	0819	1027	0.9E
	1411	1713	0.8F
	2045	2253	0.9E
28 Th	0237	0539	0.8F
	0910	1119	0.9E
	1501	1805	0.8F
	2136	2344	0.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THROGS NECK, EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0324	0630	0.8F
	0959	1208	0.9E
	1546	1854	0.7F
	2223		
2 Sa		0031	0.9E
	0409	0715	0.7F
	1046	1254	0.9E
	1631	1935	0.7F
	2309		
3 Su		0117	0.9E
	0453	0755	0.7F
	1131	1340	0.9E
	1715	2013	0.7F
	2353		
4 M		0204	0.8E
	0536	0831	0.7F
	1216	1428	0.8E
	1757	2049	0.6F
5 Tu	0039	0252	0.8E
	0616	0907	0.6F
	1304	1516	0.8E
	1835	2127	0.6F
6 W	0128	0340	0.7E
	0654	0948	0.6F
	1354	1604	0.7E
	1914	2210	0.5F
7 Th	0218	0428	0.7E
	0733	1036	0.5F
	1443	1652	0.7E
	1953	2302	0.5F
8 F	0309	0517	0.7E
	0815	1128	0.5F
	1535	1742	0.6E
	2040	2352	0.5F
9 Sa	0402	0608	0.6E
	0912	1215	0.5F
	1629	1835	0.6E
	2144		
10 Su		0038	0.5F
	0458	0702	0.6E
	1012	1301	0.5F
	1726	1928	0.6E
	2237		
11 M		0124	0.5F
	0551	0754	0.6E
	1102	1352	0.5F
	1817	2020	0.7E
	2325		
12 Tu		0222	0.5F
	0640	0844	0.7E
	1149	1455	0.5F
	1903	2109	0.7E
13 W	0015	0324	0.5F
	0725	0933	0.7E
	1244	1549	0.6F
	1946	2158	0.8E
14 Th	0111	0413	0.6F
	0806	1023	0.8E
	1335	1634	0.6F
	2026	2248	0.8E
15 F	0156	0457	0.6F
	0847	1113	0.8E
	1415	1719	0.7F
	2107	2337	0.9E
16 Sa	0235	0542	0.7F
	0927	1201	0.9E
	1454	1806	0.7F
	2146		
17 Su		0025	0.9E
	0315	0630	0.7F
	1006	1248	1.0E
	1536	1855	0.7F
	2226		
18 M		0112	1.0E
	0358	0719	0.8F
	1047	1336	1.0E
	1621	1943	0.8F
	2309		
19 Tu		0200	1.0E
	0446	0807	0.8F
	1132	1426	1.0E
	1711	2031	0.8F
	2356		
20 W		0251	1.0E
	0536	0854	0.8F
	1224	1518	0.9E
	1802	2119	0.8F
21 Th	0054	0344	0.9E
	0630	0946	0.7F
	1327	1610	0.9E
	1859	2214	0.7F
22 F	0159	0436	0.9E
	0729	1044	0.7F
	1431	1703	0.9E
	2000	2316	0.7F
23 Sa	0305	0530	0.9E
	0834	1146	0.7F
	1538	1758	0.8E
	2112		
24 Su		0015	0.7F
	0410	0626	0.8E
	0949	1243	0.7F
	1642	1855	0.8E
	2223		
25 M		0113	0.7F
	0514	0723	0.8E
	1055	1348	0.7F
	1745	1951	0.8E
	2326		
26 Tu		0230	0.7F
	0614	0818	0.8E
	1155	1507	0.7F
	1841	2045	0.8E
27 W	0026	0338	0.7F
	0709	0911	0.8E
	1257	1607	0.7F
	1935	2136	0.8E
28 Th	0127	0432	0.7F
	0759	1002	0.8E
	1353	1657	0.7F
	2024	2228	0.8E
29 F	0217	0521	0.7F
	0848	1053	0.8E
	1440	1744	0.7F
	2112	2317	0.8E
30 Sa	0301	0606	0.7F
	0936	1141	0.8E
	1522	1827	0.7F
	2158		
31 Su		0004	0.8E
	0342	0646	0.7F
	1020	1227	0.8E
	1601	1905	0.7F
	2241		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M		0049	0.8E
	0420	0723	0.6F
	1103	1311	0.8E
	1639	1941	0.6F
	2323		
2 Tu		0134	0.8E
	0459	0758	0.6F
	1144	1357	0.8E
	1717	2016	0.6F
3 W	0005	0221	0.8E
	0535	0834	0.6F
	1227	1445	0.7E
	1752	2053	0.6F
4 Th	0051	0310	0.7E
	0609	0913	0.6F
	1316	1534	0.7E
	1828	2134	0.5F
5 F	0141	0359	0.7E
	0648	0958	0.5F
	1406	1623	0.7E
	1909	2223	0.5F
6 Sa	0231	0447	0.7E
	0730	1050	0.5F
	1456	1712	0.7E
	1953	2318	0.5F
7 Su	0321	0537	0.6E
	0818	1144	0.5F
	1548	1803	0.6E
	2047		
8 M		0009	0.5F
	0415	0630	0.6E
	0920	1232	0.5F
	1643	1857	0.6E
	2151		
9 Tu		0055	0.5F
	0510	0724	0.7E
	1019	1320	0.5F
	1736	1950	0.7E
	2245		
10 W		0147	0.5F
	0600	0815	0.7E
	1110	1416	0.5F
	1824	2040	0.7E
	2335		
11 Th		0247	0.6F
	0647	0904	0.8E
	1200	1516	0.6F
	1909	2129	0.8E
12 F	0028	0342	0.6F
	0730	0954	0.8E
	1255	1606	0.7F
	1950	2219	0.9E
13 Sa	0121	0429	0.7F
	0812	1044	0.9E
	1345	1653	0.7F
	2034	2310	0.9E
14 Su	0208	0516	0.7F
	0856	1135	1.0E
	1431	1740	0.8F
	2119		
15 M		0000	1.0E
	0253	0605	0.8F
	0942	1223	1.0E
	1517	1831	0.8F
	2206		
16 Tu	0341	0048	1.0E
	1029	0658	0.8F
	1606	1312	1.0E
	2254	1923	0.8F
17 W		0137	1.0E
	0431	0749	0.8F
	1120	1403	1.0E
	1659	2014	0.8F
	2347		
18 Th		0229	1.0E
	0527	0839	0.8F
	1215	1455	1.0E
	1755	2104	0.8F
19 F	0046	0322	1.0E
	0624	0931	0.8F
	1318	1549	0.9E
	1854	2159	0.7F
20 Sa	0149	0416	0.9E
	0724	1030	0.7F
	1421	1642	0.9E
	1955	2302	0.7F
21 Su	0252	0509	0.9E
	0828	1133	0.7F
	1524	1736	0.8E
	2104		
22 M		0003	0.7F
	0355	0604	0.8E
	0939	1232	0.7F
	1626	1832	0.8E
	2212		
23 Tu		0102	0.6F
	0456	0700	0.8E
	1042	1336	0.6F
	1726	1928	0.8E
	2311		
24 W		0219	0.6F
	0554	0754	0.8E
	1138	1454	0.6F
	1821	2021	0.8E
25 Th	0006	0324	0.6F
	0648	0845	0.8E
	1234	1551	0.6F
	1913	2110	0.8E
26 F	0103	0414	0.6F
	0738	0935	0.8E
	1330	1637	0.6F
	2001	2159	0.8E
27 Sa	0154	0457	0.6F
	0825	1024	0.8E
	1416	1716	0.6F
	2048	2248	0.8E
28 Su	0237	0536	0.6F
	0910	1112	0.8E
	1456	1754	0.6F
	2132	2335	0.8E
29 M	0314	0612	0.6F
	0955	1158	0.8E
	1531	1830	0.6F
	2216		
30 Tu		0021	0.8E
	0348	0648	0.6F
	1036	1243	0.8E
	1605	1907	0.6F
	2256		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THROGS NECK, EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0106	0.8E
W	0421	0726	0.6F
	1116	1328	0.8E
	1638	1945	0.6F
	2335		
2		0152	0.7E
Th	0456	0804	0.6F
	1155	1416	0.7E
	1713	2024	0.6F
3	0015	0240	0.7E
F	0531	0844	0.6F
	1237	1505	0.7E
	1749	2105	0.5F
4	0102	0330	0.7E
Sa	0609	0926	0.5F
	1327	1555	0.7E
	1829	2150	0.5F
5	0151	0419	0.7E
Su	0651	1015	0.5F
	1415	1643	0.7E
	1914	2242	0.5F
6	0238	0508	0.7E
M	0739	1110	0.5F
	1503	1733	0.7E
	2004	2337	0.5F
7	0327	0559	0.7E
Tu	0832	1202	0.5F
	1552	1825	0.7E
	2102		
8		0026	0.5F
W	0419	0652	0.7E
	0932	1250	0.6F
	1647	1918	0.7E
	2201		
9		0115	0.6F
Th	0515	0744	0.8E
	1029	1341	0.6F
	1740	2010	0.8E
	2256		
10		0210	0.6F
F	0605	0835	0.8E
	1123	1439	0.6F
	1829	2100	0.8E
	2350		
11		0309	0.7F
Sa	0653	0925	0.9E
	1218	1536	0.7F
	1918	2151	0.9E
12	0047	0402	0.7F
Su	0740	1016	0.9E
	1316	1627	0.8F
	2005	2242	1.0E
13	0143	0452	0.8F
M	0830	1108	1.0E
	1409	1717	0.8F
	2056	2334	1.0E
14	0234	0543	0.8F
Tu	0921	1200	1.0E
	1500	1810	0.8F
	2148		
15		0025	1.0E
W	0326	0638	0.8F
	1014	1250	1.0E
	1553	1905	0.8F
	2241		
16		0115	1.0E
Th	0420	0733	0.8F
	1109	1341	1.0E
	1649	1959	0.8F
	2336		
17		0207	1.0E
F	0519	0825	0.8F
	1205	1434	1.0E
	1748	2051	0.8F
18	0034	0301	1.0E
Sa	0618	0917	0.8F
	1305	1528	0.9E
	1847	2146	0.8F
19	0136	0354	0.9E
Su	0716	1016	0.7F
	1406	1621	0.9E
	1946	2248	0.7F
20	0236	0447	0.9E
M	0816	1120	0.7F
	1506	1713	0.8E
	2048	2350	0.7F
21	0335	0540	0.8E
Tu	0921	1219	0.6F
	1604	1807	0.8E
	2153		
22		0047	0.6F
W	0433	0634	0.7E
	1022	1317	0.6F
	1702	1901	0.7E
	2250		
23		0152	0.6F
Th	0530	0728	0.7E
	1116	1429	0.6F
	1757	1953	0.7E
	2341		
24		0259	0.6F
F	0623	0818	0.7E
	1206	1526	0.6F
	1849	2042	0.7E
25	0032	0350	0.6F
Sa	0712	0906	0.7E
	1259	1611	0.6F
	1936	2130	0.7E
26	0125	0430	0.6F
Su	0759	0954	0.7E
	1348	1647	0.6F
	2022	2218	0.7E
27	0209	0501	0.5F
M	0845	1043	0.7E
	1429	1716	0.5F
	2107	2307	0.7E
28	0247	0532	0.5F
Tu	0929	1131	0.7E
	1504	1751	0.5F
	2150	2354	0.7E
29	0320	0611	0.5F
W	1011	1217	0.7E
	1535	1833	0.5F
	2230		
30		0039	0.7E
Th	0350	0654	0.5F
	1050	1302	0.7E
	1606	1916	0.5F
	2309		
31		0124	0.7E
F	0422	0737	0.5F
	1127	1348	0.7E
	1640	1958	0.5F
	2345		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0212	0.7E
Sa	0458	0818	0.6F
	1202	1437	0.7E
	1718	2038	0.6F
2	0020	0301	0.7E
Su	0537	0859	0.6F
	1241	1526	0.7E
	1757	2121	0.6F
3	0105	0351	0.7E
M	0619	0944	0.6F
	1329	1615	0.7E
	1840	2209	0.5F
4	0152	0439	0.7E
Tu	0704	1035	0.6F
	1413	1704	0.7E
	1929	2303	0.6F
5	0236	0528	0.7E
W	0754	1130	0.6F
	1501	1754	0.7E
	2021	2356	0.6F
6	0327	0620	0.8E
Th	0851	1221	0.6F
	1554	1847	0.8E
	2121		
7		0045	0.6F
F	0423	0714	0.8E
	0950	1310	0.6F
	1654	1940	0.8E
	2220		
8		0137	0.7F
Sa	0524	0806	0.8E
	1049	1406	0.7F
	1752	2032	0.9E
	2318		
9		0236	0.7F
Su	0620	0858	0.9E
	1147	1506	0.7F
	1848	2124	0.9E
10	0018	0335	0.7F
M	0715	0950	0.9E
	1249	1603	0.8F
	1942	2217	1.0E
11	0121	0430	0.8F
Tu	0809	1043	1.0E
	1350	1656	0.8F
	2037	2310	1.0E
12	0219	0524	0.8F
W	0905	1137	1.0E
	1447	1752	0.8F
	2132		
13		0003	1.0E
Th	0314	0621	0.9F
	1000	1229	1.1E
	1541	1850	0.9F
	2228		
14		0054	1.0E
F	0410	0718	0.9F
	1055	1320	1.0E
	1639	1946	0.9F
	2322		
15		0146	1.0E
Sa	0508	0812	0.8F
	1150	1412	1.0E
	1738	2038	0.8F
16	0018	0238	1.0E
Su	0606	0904	0.8F
	1247	1505	1.0E
	1834	2131	0.8F
17	0116	0331	0.9E
M	0702	1000	0.7F
	1345	1557	0.9E
	1929	2230	0.7F
18	0213	0423	0.9E
Tu	0756	1100	0.7F
	1441	1648	0.8E
	2025	2329	0.7F
19	0310	0513	0.8E
W	0855	1156	0.6F
	1538	1739	0.8E
	2125		
20		0021	0.6F
Th	0406	0605	0.7E
	0955	1246	0.6F
	1633	1831	0.7E
	2222		
21		0111	0.6F
F	0501	0657	0.7E
	1047	1340	0.5F
	1729	1923	0.7E
	2311		
22		0218	0.5F
Sa	0556	0749	0.7E
	1135	1450	0.5F
	1821	2013	0.7E
	2358		
23		0317	0.5F
Su	0646	0837	0.6E
	1222	1539	0.5F
	1910	2101	0.6E
24	0048	0358	0.5F
M	0733	0924	0.6E
	1315	1614	0.5F
	1956	2149	0.7E
25	0139	0428	0.5F
Tu	0818	1013	0.7E
	1401	1642	0.5F
	2040	2238	0.7E
26	0220	0459	0.5F
W	0903	1103	0.7E
	1438	1717	0.5F
	2125	2327	0.7E
27	0255	0538	0.5F
Th	0946	1151	0.7E
	1510	1800	0.5F
	2206		
28		0014	0.7E
F	0326	0624	0.5F
	1026	1236	0.7E
	1540	1847	0.5F
	2244		
29		0059	0.7E
Sa	0355	0710	0.5F
	1101	1322	0.8E
	1612	1932	0.6F
	2317		
30		0145	0.8E
Su	0430	0753	0.6F
	1132	1409	0.8E
	1649	2013	0.6F
	2346		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0233	0.8E	16	0051	0305	0.9E
M	0509	0834	0.6F	Tu	0640	0936	0.7F
	1200	1458	0.8E		1319	1531	0.9E
	1729	2054	0.6F		1906	2202	0.7F
2	0017	0322	0.8E	17	0147	0356	0.9E
Tu	0550	0915	0.6F	W	0730	1030	0.7F
	1237	1547	0.8E		1414	1620	0.8E
	1811	2138	0.6F		1955	2256	0.6F
3	0101	0411	0.8E	18	0241	0445	0.8E
W	0633	1003	0.6F	Th	0821	1123	0.6F
	1326	1635	0.8E		1508	1709	0.8E
	1858	2229	0.6F		2048	2347	0.6F
4	0151	0500	0.8E	19	0335	0534	0.7E
Th	0722	1056	0.6F	F	0917	1210	0.6F
	1417	1725	0.8E		1601	1759	0.7E
	1949	2323	0.6F		2145		
5	0244	0550	0.8E	20		0030	0.5F
F	0817	1151	0.6F	Sa	0429	0625	0.7E
	1513	1817	0.8E		1012	1248	0.5F
	2046				1657	1851	0.6E
					2237		
6		0017	0.7F	21		0108	0.5F
Sa	0343	0644	0.8E	Su	0524	0717	0.6E
	0917	1243	0.7F		1100	1329	0.5F
	1615	1911	0.8E		1751	1943	0.6E
	2149				2322		
7		0109	0.7F	22		0154	0.5F
Su	0449	0739	0.9E	M	0617	0808	0.6E
	1020	1337	0.7F		1145	1434	0.5F
	1723	2006	0.9E		1841	2032	0.6E
	2252						
8		0207	0.7F	23	0008	0314	0.5F
M	0555	0832	0.9E	Tu	0706	0856	0.6E
	1123	1439	0.7F		1234	1537	0.5F
	1826	2059	0.9E		1929	2120	0.6E
	2355						
9		0311	0.7F	24	0102	0356	0.5F
Tu	0656	0925	0.9E	W	0751	0945	0.6E
	1229	1542	0.8F		1329	1614	0.5F
	1925	2152	1.0E		2014	2210	0.6E
10	0103	0411	0.8F	25	0152	0432	0.5F
W	0752	1020	1.0E	Th	0836	1035	0.7E
	1336	1639	0.8F		1412	1651	0.5F
	2021	2247	1.0E		2057	2300	0.7E
11	0206	0507	0.8F	26	0230	0511	0.5F
Th	0849	1114	1.0E	F	0919	1124	0.7E
	1435	1736	0.8F		1446	1732	0.5F
	2118	2341	1.0E		2139	2348	0.7E
12	0302	0606	0.9F	27	0301	0555	0.5F
F	0945	1207	1.0E	Sa	0958	1211	0.8E
	1530	1836	0.9F		1516	1819	0.6F
	2211				2217		
13		0033	1.0E	28		0033	0.8E
Sa	0357	0704	0.9F	Su	0331	0642	0.6F
	1039	1258	1.0E		1033	1256	0.8E
	1625	1931	0.9F		1547	1904	0.6F
	2306				2249		
14		0123	1.0E	29		0119	0.8E
Su	0453	0757	0.8F	M	0403	0726	0.6F
	1131	1348	1.0E		1104	1342	0.8E
	1721	2022	0.8F		1622	1947	0.6F
	2358				2318		
15		0214	1.0E	30		0205	0.8E
M	0548	0846	0.8F	Tu	0442	0808	0.6F
	1225	1440	1.0E		1131	1429	0.8E
	1814	2111	0.8F		1702	2029	0.6F
					2347		
				31		0254	0.8E
				W	0523	0850	0.6F
					1205	1519	0.8E
					1745	2112	0.7F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0026	0343	0.8E	16	0209	0415	0.8E
Th	0608	0935	0.7F	F	0745	1040	0.6F
	1250	1608	0.8E		1436	1639	0.7E
	1831	2159	0.7F		2007	2304	0.5F
2	0117	0433	0.8E	17	0301	0503	0.7E
F	0657	1026	0.7F	Sa	0831	1128	0.5F
	1345	1658	0.8E		1528	1727	0.7E
	1922	2254	0.7F		2059	2351	0.5F
3	0215	0523	0.8E	18	0355	0553	0.6E
Sa	0750	1123	0.7F	Su	0928	1212	0.5F
	1446	1749	0.8E		1622	1819	0.6E
	2020	2352	0.7F		2156		
4	0318	0617	0.8E	19		0032	0.5F
Su	0851	1219	0.7F	M	0450	0645	0.6E
	1552	1844	0.8E		1021	1252	0.5F
	2125				1718	1912	0.6E
					2246		
5		0046	0.7F	20		0114	0.5F
M	0428	0713	0.8E	Tu	0545	0738	0.6E
	1000	1314	0.7F		1108	1337	0.5F
	1704	1941	0.9E		1810	2004	0.6E
	2234				2330		
6		0143	0.7F	21		0207	0.4F
Tu	0538	0808	0.9E	W	0636	0828	0.6E
	1107	1416	0.7F		1153	1444	0.4F
	1809	2036	0.9E		1859	2053	0.6E
	2340						
7		0251	0.7F	22	0018	0318	0.5F
W	0640	0903	0.9E	Th	0722	0917	0.6E
	1214	1524	0.7F		1248	1543	0.5F
	1910	2130	0.9E		1944	2141	0.7E
8	0049	0355	0.8F	23	0116	0405	0.5F
Th	0739	0957	1.0E	F	0806	1006	0.7E
	1323	1625	0.8F		1340	1625	0.5F
	2007	2224	1.0E		2027	2231	0.7E
9	0154	0453	0.8F	24	0200	0446	0.5F
F	0834	1052	1.0E	Sa	0847	1056	0.7E
	1422	1723	0.8F		1418	1706	0.6F
	2101	2319	1.0E		2108	2320	0.8E
10	0249	0552	0.8F	25	0234	0528	0.6F
Sa	0928	1145	1.0E	Su	0927	1144	0.8E
	1516	1821	0.8F		1450	1750	0.6F
	2154				2146		
11		0010	1.0E	26		0007	0.8E
Su	0341	0648	0.8F	M	0305	0613	0.6F
	1020	1235	1.0E		1003	1230	0.8E
	1607	1914	0.8F		1521	1836	0.6F
	2245				2219		
12		0059	1.0E	27		0052	0.8E
M	0433	0738	0.8F	Tu	0338	0659	0.6F
	1110	1323	1.0E		1035	1315	0.9E
	1659	2002	0.8F		1557	1921	0.7F
	2335				2250		
13		0148	1.0E	28		0138	0.9E
Tu	0524	0824	0.8F	W	0417	0743	0.7F
	1159	1412	0.9E		1106	1402	0.9E
	1749	2046	0.8F		1638	2005	0.7F
					2323		
14	0025	0237	0.9E	29		0227	0.9E
W	0613	0907	0.7F	Th	0500	0827	0.7F
	1250	1502	0.9E		1142	1451	0.9E
	1836	2128	0.7F		1722	2049	0.7F
15	0117	0327	0.8E	30	0004	0317	0.9E
Th	0659	0951	0.7F	F	0546	0912	0.7F
	1343	1551	0.8E		1228	1542	0.9E
	1922	2214	0.6F		1810	2136	0.7F
				31	0056	0407	0.9E
				Sa	0636	1002	0.7F
					1327	1633	0.9E
					1902	2230	0.7F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THROGS NECK, EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Su	0159	0459	0.9E	16 M	0319	0522	0.6E
	0731	1100	0.7F		0832	1136	0.5F
	1431	1725	0.9E		1546	1747	0.6E
	2001	2330	0.7F		2102		
2 M	0306	0552	0.8E	17 Tu		0000	0.5F
	0834	1159	0.7F		0413	0613	0.6E
	1540	1820	0.8E		0934	1222	0.5F
	2110				1641	1840	0.6E
					2203		
3 Tu		0027	0.7F	18 W		0044	0.5F
	0416	0649	0.8E		0508	0707	0.6E
	0948	1255	0.7F		1029	1307	0.5F
	1651	1917	0.8E		1736	1933	0.6E
	2224				2253		
4 W		0124	0.7F	19 Th		0131	0.5F
	0524	0746	0.9E		0601	0759	0.6E
	1058	1358	0.7F		1116	1400	0.5F
	1757	2014	0.9E		1826	2024	0.6E
	2330				2338		
5 Th		0234	0.7F	20 F		0233	0.5F
	0627	0841	0.9E		0649	0849	0.7E
	1203	1511	0.7F		1203	1505	0.5F
	1856	2108	0.9E		1910	2113	0.7E
6 F	0036	0343	0.7F	21 Sa	0029	0333	0.5F
	0723	0935	0.9E		0732	0937	0.7E
	1309	1613	0.8F		1257	1556	0.5F
	1950	2202	0.9E		1952	2202	0.7E
7 Sa	0140	0441	0.8F	22 Su	0122	0418	0.6F
	0817	1028	0.9E		0813	1027	0.8E
	1408	1708	0.8F		1343	1639	0.6F
	2042	2255	0.9E		2032	2251	0.8E
8 Su	0234	0535	0.8F	23 M	0201	0500	0.6F
	0909	1121	0.9E		0852	1116	0.8E
	1458	1802	0.8F		1419	1722	0.6F
	2134	2346	1.0E		2111	2340	0.9E
9 M	0322	0628	0.8F	24 Tu	0237	0544	0.7F
	0959	1210	1.0E		0930	1203	0.9E
	1546	1852	0.8F		1455	1808	0.7F
	2222				2148		
10 Tu		0034	0.9E	25 W		0026	0.9E
	0409	0715	0.8F		0314	0631	0.7F
	1047	1257	0.9E		1007	1250	0.9E
	1632	1936	0.8F		1534	1854	0.7F
	2310				2225		
11 W		0120	0.9E	26 Th		0113	0.9E
	0456	0757	0.7F		0355	0718	0.7F
	1133	1344	0.9E		1045	1337	0.9E
	1719	2017	0.7F		1617	1942	0.7F
	2356				2305		
12 Th		0207	0.9E	27 F		0201	0.9E
	0541	0836	0.7F		0441	0805	0.7F
	1220	1432	0.8E		1127	1426	0.9E
	1803	2054	0.7F		1705	2029	0.7F
					2350		
13 F	0045	0256	0.8E	28 Sa		0252	0.9E
	0624	0914	0.6F		0530	0852	0.7F
	1310	1520	0.8E		1216	1518	0.9E
	1845	2133	0.6F		1756	2117	0.7F
14 Sa	0136	0345	0.7E	29 Su	0046	0344	0.9E
	0706	0955	0.6F		0623	0943	0.7F
	1401	1609	0.7E		1319	1610	0.9E
	1926	2219	0.5F		1851	2211	0.7F
15 Su	0227	0433	0.7E	30 M	0152	0437	0.9E
	0747	1044	0.5F		0721	1041	0.7F
	1453	1657	0.7E		1425	1703	0.9E
	2008	2311	0.5F		1952	2312	0.7F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Tu	0259	0530	0.9E	16 W	0334	0542	0.6E
	0826	1143	0.7F		0835	1152	0.5F
	1532	1758	0.8E		1600	1809	0.6E
	2103				2107		
2 W		0012	0.7F	17 Th		0015	0.5F
	0406	0626	0.8E		0427	0635	0.6E
	0942	1241	0.7F		0940	1238	0.5F
	1638	1855	0.8E		1654	1902	0.6E
	2217				2208		
3 Th		0110	0.7F	18 F		0101	0.5F
	0510	0724	0.8E		0520	0728	0.7E
	1050	1343	0.7F		1033	1326	0.5F
	1741	1952	0.8E		1746	1954	0.7E
	2320				2257		
4 F		0222	0.7F	19 Sa		0153	0.5F
	0610	0815	0.8E		0609	0819	0.7E
	1150	1459	0.7F		1120	1423	0.5F
	1839	2045	0.9E		1832	2044	0.7E
					2343		
5 Sa	0021	0332	0.7F	20 Su		0253	0.5F
	0706	0911	0.9E		0654	0908	0.8E
	1253	1600	0.7F		1208	1521	0.6F
	1932	2137	0.9E		1916	2132	0.8E
6 Su	0123	0427	0.7F	21 M	0034	0346	0.6F
	0758	1003	0.9E		0736	0957	0.8E
	1350	1652	0.7F		1300	1609	0.6F
	2022	2229	0.9E		1956	2222	0.8E
7 M	0215	0517	0.7F	22 Tu	0124	0432	0.7F
	0847	1054	0.9E		0816	1047	0.9E
	1439	1741	0.7F		1347	1654	0.7F
	2111	2319	0.9E		2037	2312	0.9E
8 Tu	0301	0605	0.7F	23 W	0208	0517	0.7F
	0936	1143	0.9E		0858	1136	0.9E
	1523	1827	0.7F		1430	1740	0.7F
	2159				2120		
9 W		0007	0.9E	24 Th		0001	0.9E
	0344	0648	0.7F		0251	0605	0.7F
	1022	1230	0.9E		0942	1225	1.0E
	1604	1909	0.7F		1513	1830	0.8F
	2244				2204		
10 Th		0052	0.9E	25 F		0049	1.0E
	0425	0728	0.7F		0337	0656	0.8F
	1107	1315	0.8E		1028	1313	1.0E
	1646	1946	0.6F		1601	1921	0.8F
	2328				2251		
11 F		0138	0.8E	26 Sa		0138	1.0E
	0507	0804	0.6F		0427	0747	0.8F
	1150	1401	0.8E		1116	1403	1.0E
	1727	2023	0.6F		1653	2012	0.8F
					2342		
12 Sa	0012	0225	0.8E	27 Su		0229	1.0E
	0546	0841	0.6F		0521	0837	0.8F
	1236	1450	0.7E		1210	1456	0.9E
	1806	2100	0.6F		1749	2102	0.8F
13 Su	0101	0315	0.7E	28 M	0041	0322	0.9E
	0625	0920	0.6F		0618	0928	0.8F
	1327	1539	0.7E		1313	1549	0.9E
	1844	2142	0.5F		1847	2156	0.7F
14 M	0152	0404	0.7E	29 Tu	0145	0416	0.9E
	0704	1005	0.5F		0718	1026	0.7F
	1417	1628	0.7E		1417	1642	0.9E
	1925	2232	0.5F		1948	2258	0.7F
15 Tu	0242	0452	0.7E	30 W	0249	0509	0.9E
	0746	1059	0.5F		0821	1129	0.7F
	1508	1717	0.7E		1520	1736	0.8E
	2009	2326	0.5F		2057		
				31 Th		0000	0.7F
					0351	0604	0.8E
					0933	1228	0.7F
					1622	1832	0.8E
					2207		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 090° True E-Ebb, Dir. 289° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0057	0.7F
F	0452	0700	0.8E
	1038	1330	0.7F
	1722	1928	0.8E
	2307		
2		0208	0.7F
Sa	0551	0755	0.8E
	1135	1444	0.7F
	1819	2021	0.8E
3	0003	0317	0.7F
Su	0646	0847	0.8E
	1231	1544	0.7F
	1911	2112	0.8E
4	0100	0409	0.7F
M	0737	0937	0.8E
	1328	1633	0.7F
	2001	2202	0.8E
5	0153	0454	0.7F
Tu	0825	1026	0.8E
	1417	1717	0.6F
	2049	2251	0.8E
6	0238	0538	0.6F
W	0912	1115	0.8E
	1459	1758	0.6F
	2136	2339	0.8E
7	0318	0618	0.6F
Th	0958	1202	0.8E
	1537	1838	0.6F
	2220		
8		0025	0.8E
F	0355	0656	0.6F
	1041	1247	0.8E
	1613	1915	0.6F
	2302		
9		0110	0.8E
Sa	0432	0734	0.6F
	1122	1333	0.8E
	1651	1953	0.6F
	2343		
10		0156	0.7E
Su	0510	0812	0.6F
	1205	1420	0.7E
	1728	2031	0.6F
11	0027	0245	0.7E
M	0546	0851	0.5F
	1250	1510	0.7E
	1804	2111	0.5F
12	0115	0335	0.7E
Tu	0623	0933	0.5F
	1340	1559	0.7E
	1843	2157	0.5F
13	0204	0424	0.7E
W	0705	1023	0.5F
	1428	1648	0.7E
	1928	2250	0.5F
14	0251	0512	0.7E
Th	0751	1118	0.5F
	1516	1737	0.7E
	2016	2343	0.5F
15	0339	0603	0.7E
F	0843	1208	0.5F
	1605	1829	0.7E
	2113		
16		0031	0.5F
Sa	0431	0656	0.7E
	0943	1255	0.5F
	1658	1922	0.7E
	2209		
17		0119	0.6F
Su	0523	0748	0.7E
	1035	1345	0.6F
	1748	2013	0.8E
	2301		
18		0214	0.6F
M	0611	0838	0.8E
	1126	1443	0.6F
	1835	2103	0.8E
	2352		
19		0311	0.6F
Tu	0658	0927	0.8E
	1219	1538	0.7F
	1920	2153	0.9E
20	0047	0403	0.7F
W	0743	1018	0.9E
	1315	1627	0.7F
	2007	2244	0.9E
21	0142	0451	0.7F
Th	0830	1110	0.9E
	1407	1716	0.8F
	2056	2336	1.0E
22	0232	0542	0.8F
F	0921	1201	1.0E
	1457	1809	0.8F
	2147		
23		0026	1.0E
Sa	0323	0636	0.8F
	1013	1251	1.0E
	1549	1904	0.8F
	2239		
24		0116	1.0E
Su	0416	0731	0.8F
	1106	1341	1.0E
	1645	1957	0.8F
	2333		
25		0208	1.0E
M	0514	0823	0.8F
	1201	1434	1.0E
	1743	2049	0.8F
26	0031	0301	1.0E
Tu	0613	0915	0.8F
	1301	1528	1.0E
	1842	2143	0.8F
27	0132	0355	0.9E
W	0711	1013	0.7F
	1402	1621	0.9E
	1941	2244	0.7F
28	0232	0447	0.9E
Th	0811	1116	0.7F
	1502	1714	0.9E
	2043	2346	0.7F
29	0332	0540	0.8E
F	0917	1215	0.7F
	1601	1807	0.8E
	2149		
30		0043	0.7F
Sa	0430	0635	0.8E
	1019	1311	0.6F
	1700	1902	0.8E
	2247		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0145	0.6F
Su	0529	0729	0.7E
	1114	1423	0.6F
	1757	1955	0.7E
	2340		
2		0255	0.6F
M	0623	0820	0.7E
	1206	1522	0.6F
	1849	2045	0.7E
3	0033	0349	0.6F
Tu	0714	0909	0.7E
	1301	1611	0.6F
	1938	2133	0.7E
4	0128	0432	0.6F
W	0801	0958	0.7E
	1352	1651	0.6F
	2025	2222	0.7E
5	0214	0508	0.6F
Th	0848	1047	0.7E
	1434	1724	0.6F
	2111	2311	0.7E
6	0253	0543	0.5F
F	0934	1135	0.7E
	1511	1802	0.5F
	2156	2358	0.7E
7	0328	0622	0.5F
Sa	1017	1221	0.7E
	1545	1843	0.5F
	2237		
8		0043	0.7E
Su	0401	0704	0.5F
	1057	1306	0.7E
	1618	1924	0.5F
	2317		
9		0129	0.7E
M	0435	0744	0.5F
	1136	1352	0.7E
	1654	2004	0.5F
	2355		
10		0217	0.7E
Tu	0512	0824	0.6F
	1214	1441	0.7E
	1730	2044	0.6F
11	0035	0306	0.7E
W	0549	0905	0.6F
	1258	1531	0.7E
	1808	2127	0.6F
12	0120	0355	0.7E
Th	0628	0950	0.5F
	1343	1619	0.7E
	1849	2214	0.5F
13	0205	0443	0.7E
F	0711	1041	0.5F
	1426	1707	0.7E
	1935	2308	0.5F
14	0247	0532	0.7E
Sa	0800	1134	0.6F
	1510	1757	0.7E
	2026		
15		0000	0.6F
Su	0334	0624	0.7E
	0854	1224	0.6F
	1600	1850	0.7E
	2123		
16		0048	0.6F
M	0429	0716	0.8E
	0952	1312	0.6F
	1659	1943	0.8E
	2221		
17		0138	0.6F
Tu	0528	0809	0.8E
	1049	1407	0.6F
	1755	2034	0.8E
	2317		
18		0237	0.7F
W	0622	0900	0.9E
	1146	1507	0.7F
	1849	2125	0.9E
19	0016	0336	0.7F
Th	0717	0951	0.9E
	1248	1603	0.7F
	1942	2218	0.9E
20	0119	0429	0.8F
F	0809	1045	1.0E
	1348	1655	0.8F
	2037	2311	1.0E
21	0217	0522	0.8F
Sa	0904	1138	1.0E
	1444	1750	0.8F
	2131		
22		0004	1.0E
Su	0311	0619	0.8F
	0959	1229	1.0E
	1539	1848	0.8F
	2226		
23		0055	1.0E
M	0407	0717	0.9F
	1053	1320	1.0E
	1635	1944	0.9F
	2320		
24		0146	1.0E
Tu	0505	0810	0.8F
	1148	1413	1.0E
	1734	2036	0.8F
25	0016	0239	1.0E
W	0602	0902	0.8F
	1244	1506	1.0E
	1831	2129	0.8F
26	0113	0332	1.0E
Th	0658	0957	0.8F
	1342	1558	0.9E
	1926	2227	0.7F
27	0211	0424	0.9E
F	0754	1057	0.7F
	1440	1649	0.9E
	2023	2327	0.7F
28	0309	0515	0.8E
Sa	0853	1153	0.7F
	1537	1741	0.8E
	2124		
29		0021	0.6F
Su	0406	0607	0.8E
	0954	1246	0.6F
	1634	1833	0.7E
	2222		
30		0112	0.6F
M	0502	0700	0.7E
	1049	1344	0.6F
	1730	1926	0.7E
	2314		
31		0222	0.5F
Tu	0558	0752	0.7E
	1138	1456	0.5F
	1824	2017	0.7E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0031	5.0E	16		0031	4.7E
Tu	0358	0659	3.9F	W	0400	0655	3.5F
	1001	1303	5.2E		0958	1253	4.8E
	1636	1930	3.8F		1629	1918	3.4F
	2229				2217		
2		0126	5.1E	17		0108	4.8E
W	0453	0752	3.9F	Th	0438	0733	3.5F
	1055	1356	5.2E		1037	1330	4.9E
	1729	2023	3.7F		1705	1953	3.4F
	2321				2255		
3		0219	5.0E	18		0145	4.8E
Th	0548	0847	3.8F	F	0515	0812	3.5F
	1148	1447	5.1E		1116	1409	4.9E
	1821	2116	3.6F		1741	2030	3.4F
					2332		
4	0013	0313	4.9E	19		0226	4.9E
F	0642	0940	3.7F	Sa	0553	0850	3.5F
	1240	1539	4.9E		1155	1450	4.9E
	1913	2208	3.5F		1818	2110	3.4F
5	0105	0404	4.8E	20	0012	0307	4.9E
Sa	0737	1036	3.5F	Su	0634	0932	3.5F
	1333	1633	4.7E		1236	1533	4.8E
	2006	2301	3.3F		1857	2152	3.3F
6	0158	0457	4.6E	21	0053	0353	4.8E
Su	0833	1129	3.2F	M	0719	1017	3.4F
	1426	1726	4.5E		1321	1618	4.7E
	2100	2357	3.1F		1940	2237	3.3F
7	0251	0551	4.4E	22	0140	0440	4.8E
M	0930	1226	3.0F	Tu	0809	1105	3.2F
	1520	1819	4.3E		1411	1707	4.6E
	2155				2030	2328	3.2F
8		0051	3.0F	23	0234	0535	4.7E
Tu	0344	0650	4.3E	W	0908	1200	3.1F
	1027	1325	2.9F		1507	1803	4.5E
	1614	1916	4.1E		2128		
	2249						
9		0147	2.9F	24		0027	3.1F
W	0438	0748	4.2E	Th	0335	0634	4.6E
	1123	1420	2.8F		1014	1303	3.0F
	1707	2011	4.1E		1611	1902	4.4E
	2342				2234		
10		0244	2.9F	25		0133	3.1F
Th	0531	0843	4.2E	F	0441	0738	4.6E
	1217	1514	2.8F		1125	1412	3.0F
	1759	2108	4.1E		1719	2007	4.4E
					2344		
11	0032	0333	2.9F	26		0242	3.2F
F	0622	0938	4.2E	Sa	0550	0847	4.6E
	1306	1603	2.9F		1233	1525	3.1F
	1848	2154	4.1E		1826	2116	4.5E
12	0119	0420	3.0F	27	0051	0353	3.4F
Sa	0709	1019	4.4E	Su	0657	0957	4.7E
	1351	1648	3.0F		1337	1632	3.3F
	1934	2235	4.3E		1930	2226	4.7E
13	0202	0501	3.1F	28	0154	0457	3.6F
Su	0754	1058	4.5E	M	0759	1101	4.9E
	1433	1727	3.1F		1435	1733	3.5F
	2018	2314	4.4E		2028	2328	4.8E
14	0243	0539	3.3F	29	0252	0555	3.8F
M	0837	1136	4.6E	Tu	0856	1202	5.0E
	1513	1804	3.2F		1529	1827	3.7F
	2059	2352	4.6E		2123		
15	0322	0618	3.4F	30		0025	5.0E
Tu	0918	1215	4.8E	W	0347	0650	3.9F
	1552	1841	3.3F		0950	1254	5.1E
	2139				1620	1918	3.8F
					2214		
				31		0117	5.1E
				Th	0439	0741	3.9F
					1041	1344	5.1E
					1709	2005	3.8F
					2303		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0203	5.1E	16		0121	5.0E
F	0529	0829	3.9F	Sa	0447	0745	3.7F
	1130	1431	5.1E		1054	1342	5.0E
	1756	2054	3.8F		1709	2003	3.6F
	2351				2308		
2		0251	5.0E	17		0202	5.0E
Sa	0618	0918	3.8F	Su	0526	0825	3.7F
	1218	1515	4.9E		1134	1425	4.9E
	1843	2139	3.6F		1746	2042	3.6F
					2348		
3	0038	0335	4.9E	18		0243	5.0E
Su	0707	1004	3.6F	M	0607	0906	3.7F
	1305	1601	4.7E		1215	1506	4.9E
	1930	2227	3.4F		1825	2125	3.6F
4	0126	0421	4.7E	19	0031	0330	5.0E
M	0756	1052	3.3F	Tu	0653	0953	3.5F
	1353	1644	4.5E		1301	1552	4.8E
	2018	2313	3.2F		1909	2212	3.5F
5	0214	0507	4.4E	20	0119	0417	4.8E
Tu	0848	1141	3.1F	W	0744	1042	3.4F
	1442	1731	4.2E		1352	1643	4.6E
	2109				2001	2306	3.3F
6		0004	3.0F	21	0215	0512	4.7E
W	0305	0555	4.2E	Th	0844	1139	3.2F
	0941	1235	2.8F		1450	1738	4.4E
	1533	1820	4.0E		2102		
	2202						
7		0058	2.8F	22		0007	3.2F
Th	0358	0649	4.0E	F	0318	0612	4.5E
	1037	1332	2.7F		0952	1245	3.0F
	1627	1915	3.9E		1557	1843	4.2E
	2257				2213		
8		0155	2.7F	23		0116	3.1F
F	0452	0748	4.0E	Sa	0429	0719	4.4E
	1133	1427	2.7F		1106	1400	3.0F
	1722	2011	3.8E		1708	1953	4.2E
	2351				2329		
9		0253	2.7F	24		0233	3.2F
Sa	0547	0846	4.0E	Su	0542	0836	4.4E
	1227	1524	2.7F		1218	1515	3.1F
	1815	2109	3.9E		1817	2109	4.3E
10	0042	0344	2.9F	25	0039	0346	3.4F
Su	0639	0940	4.1E	M	0649	0951	4.5E
	1316	1613	2.9F		1321	1624	3.3F
	1904	2200	4.1E		1920	2218	4.5E
11	0129	0429	3.1F	26	0142	0451	3.6F
M	0727	1026	4.3E	Tu	0751	1056	4.7E
	1400	1657	3.0F		1418	1723	3.6F
	1950	2242	4.3E		2016	2322	4.8E
12	0212	0514	3.2F	27	0239	0546	3.8F
Tu	0812	1108	4.5E	W	0846	1153	4.9E
	1442	1736	3.2F		1510	1812	3.8F
	2033	2324	4.5E		2108		
13	0252	0553	3.4F	28		0013	5.0E
W	0855	1149	4.7E	Th	0330	0638	3.9F
	1520	1812	3.4F		0936	1241	5.0E
	2113				1557	1901	3.9F
					2156		
14		0002	4.7E				
Th	0331	0629	3.6F				
	0935	1225	4.8E				
	1557	1849	3.5F				
	2151						
15		0042	4.9E				
F	0409	0707	3.7F				
	1014	1305	4.9E				
	1633	1926	3.6F				
	2229						

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0100	5.1E
F	0418	0725	4.0F
	1024	1324	5.0E
	1642	1944	3.9F
	2242		
2		0143	5.1E
Sa	0504	0806	3.9F
	1109	1405	5.0E
	1726	2024	3.8F
	2326		
3		0225	5.0E
Su	0549	0850	3.8F
	1153	1446	4.8E
	1808	2107	3.7F
4	0010	0304	4.8E
M	0633	0930	3.6F
	1236	1524	4.6E
	1851	2148	3.5F
5	0053	0345	4.6E
Tu	0717	1014	3.4F
	1320	1605	4.4E
	1935	2233	3.2F
6	0139	0425	4.4E
W	0803	1057	3.1F
	1406	1646	4.2E
	2022	2318	3.0F
7	0226	0512	4.2E
Th	0853	1148	2.9F
	1455	1735	3.9E
	2112		
8		0006	2.8F
F	0318	0601	4.0E
	0948	1242	2.7F
	1549	1825	3.8E
	2208		
9		0105	2.7F
Sa	0414	0656	3.9E
	1045	1340	2.6F
	1645	1922	3.7E
	2305		
10		0206	2.7F
Su	0511	0756	3.9E
	1142	1440	2.7F
	1740	2022	3.8E
11	0000	0302	2.8F
M	0606	0853	4.0E
	1234	1531	2.8F
	1832	2118	4.0E
12	0050	0354	3.0F
Tu	0657	0947	4.2E
	1321	1619	3.0F
	1919	2206	4.2E
13	0136	0439	3.3F
W	0743	1032	4.4E
	1404	1701	3.3F
	2002	2250	4.5E
14	0218	0519	3.5F
Th	0827	1116	4.6E
	1443	1739	3.5F
	2043	2332	4.7E
15	0259	0559	3.7F
F	0909	1156	4.8E
	1521	1818	3.6F
	2123		
16		0013	4.9E
Sa	0339	0640	3.8F
	0950	1234	4.9E
	1559	1856	3.8F
	2203		
17		0054	5.1E
Su	0419	0719	3.9F
	1031	1318	5.0E
	1637	1936	3.8F
	2244		
18		0137	5.1E
M	0501	0802	3.9F
	1113	1359	5.0E
	1717	2018	3.8F
	2327		
19		0222	5.1E
Tu	0545	0847	3.8F
	1157	1444	4.9E
	1800	2103	3.7F
20	0014	0307	5.0E
W	0633	0934	3.6F
	1245	1531	4.7E
	1848	2152	3.6F
21	0105	0359	4.8E
Th	0728	1024	3.4F
	1339	1624	4.5E
	1943	2249	3.4F
22	0204	0456	4.6E
F	0830	1125	3.2F
	1440	1722	4.3E
	2049	2354	3.2F
23	0310	0557	4.4E
Sa	0940	1236	3.0F
	1549	1829	4.1E
	2204		
24		0108	3.1F
Su	0422	0711	4.2E
	1053	1353	3.0F
	1659	1946	4.1E
	2320		
25		0230	3.2F
M	0534	0831	4.3E
	1202	1508	3.2F
	1806	2105	4.3E
26	0028	0340	3.4F
Tu	0639	0946	4.4E
	1304	1613	3.4F
	1906	2214	4.5E
27	0128	0439	3.6F
W	0738	1048	4.6E
	1358	1704	3.6F
	2000	2311	4.7E
28	0222	0530	3.8F
Th	0830	1137	4.8E
	1446	1752	3.8F
	2048	2356	4.9E
29	0310	0617	3.9F
F	0917	1220	4.8E
	1531	1837	3.9F
	2134		
30		0038	5.0E
Sa	0355	0700	3.9F
	1001	1259	4.9E
	1614	1918	3.9F
	2217		
31		0118	5.0E
Su	0438	0742	3.9F
	1043	1336	4.8E
	1654	1955	3.8F
	2258		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0154	4.9E
M	0519	0821	3.7F
	1125	1412	4.7E
	1734	2034	3.7F
	2340		
2		0232	4.8E
Tu	0600	0859	3.6F
	1205	1450	4.6E
	1815	2114	3.5F
3	0021	0307	4.6E
W	0642	0937	3.4F
	1247	1529	4.4E
	1856	2155	3.3F
4	0104	0348	4.4E
Th	0725	1021	3.1F
	1331	1610	4.2E
	1940	2236	3.1F
5	0149	0433	4.2E
F	0812	1106	2.9F
	1418	1653	4.0E
	2028	2326	2.9F
6	0239	0520	4.0E
Sa	0903	1157	2.8F
	1510	1746	3.9E
	2122		
7		0019	2.8F
Su	0333	0614	3.9E
	0959	1253	2.7F
	1604	1839	3.8E
	2219		
8		0118	2.8F
M	0430	0709	3.9E
	1055	1351	2.7F
	1659	1938	3.9E
	2315		
9		0215	2.8F
Tu	0526	0808	4.0E
	1148	1446	2.9F
	1751	2033	4.0E
10	0008	0311	3.0F
W	0618	0902	4.2E
	1237	1534	3.1F
	1840	2125	4.3E
11	0057	0357	3.3F
Th	0707	0953	4.4E
	1322	1619	3.3F
	1925	2213	4.6E
12	0143	0445	3.5F
F	0753	1038	4.6E
	1405	1703	3.5F
	2009	2257	4.8E
13	0228	0529	3.7F
Sa	0838	1124	4.8E
	1446	1746	3.7F
	2052	2345	5.0E
14	0312	0612	3.8F
Su	0922	1208	4.9E
	1527	1829	3.8F
	2136		
15		0029	5.1E
M	0356	0655	3.9F
	1006	1252	5.0E
	1610	1912	3.9F
	2221		
16		0115	5.2E
Tu	0442	0740	3.9F
	1052	1338	4.9E
	1655	1959	3.9F
	2309		
17		0202	5.1E
W	0531	0829	3.8F
	1140	1425	4.9E
	1744	2048	3.8F
	2359		
18		0251	5.0E
Th	0623	0920	3.6F
	1232	1517	4.7E
	1837	2141	3.6F
19	0054	0346	4.8E
F	0720	1017	3.4F
	1329	1612	4.5E
	1938	2243	3.4F
20	0155	0443	4.6E
Sa	0824	1118	3.2F
	1432	1715	4.3E
	2047	2350	3.2F
21	0302	0551	4.4E
Su	0932	1232	3.1F
	1538	1824	4.2E
	2159		
22		0104	3.2F
M	0411	0705	4.2E
	1041	1344	3.1F
	1645	1943	4.2E
	2310		
23		0220	3.2F
Tu	0519	0824	4.3E
	1145	1456	3.2F
	1748	2058	4.3E
24	0015	0325	3.4F
W	0621	0930	4.4E
	1243	1553	3.4F
	1845	2200	4.5E
25	0112	0420	3.5F
Th	0716	1029	4.5E
	1335	1642	3.6F
	1936	2251	4.7E
26	0203	0510	3.6F
F	0806	1114	4.6E
	1422	1729	3.7F
	2023	2336	4.8E
27	0249	0555	3.7F
Sa	0851	1153	4.7E
	1505	1812	3.7F
	2107		
28		0011	4.9E
Su	0332	0636	3.7F
	0933	1232	4.7E
	1546	1849	3.7F
	2148		
29		0050	4.9E
M	0413	0715	3.7F
	1014	1307	4.7E
	1626	1927	3.7F
	2229		
30		0125	4.8E
Tu	0453	0750	3.6F
	1054	1341	4.6E
	1705	2005	3.6F
	2308		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0159	4.8E
W	0533	0828	3.5F
	1134	1419	4.5E
	1744	2041	3.4F
	2349		
2		0238	4.6E
Th	0613	0906	3.3F
	1214	1456	4.4E
	1824	2121	3.3F
3	0030	0319	4.5E
F	0655	0948	3.2F
	1257	1537	4.3E
	1907	2204	3.1F
4	0114	0401	4.4E
Sa	0739	1031	3.0F
	1341	1622	4.2E
	1952	2249	3.0F
5	0201	0446	4.2E
Su	0826	1118	2.9F
	1429	1709	4.1E
	2042	2340	2.9F
6	0251	0537	4.1E
M	0917	1208	2.8F
	1519	1800	4.0E
	2136		
7		0033	2.8F
Tu	0345	0630	4.1E
	1010	1303	2.8F
	1612	1854	4.1E
	2231		
8		0127	2.9F
W	0439	0723	4.1E
	1102	1354	2.9F
	1704	1949	4.2E
	2326		
9		0224	3.0F
Th	0533	0817	4.3E
	1152	1449	3.1F
	1755	2042	4.4E
10	0019	0318	3.2F
F	0625	0910	4.4E
	1240	1537	3.3F
	1844	2137	4.7E
11	0110	0406	3.4F
Sa	0715	1001	4.6E
	1328	1626	3.5F
	1933	2228	4.9E
12	0200	0455	3.6F
Su	0804	1050	4.8E
	1414	1715	3.7F
	2022	2316	5.0E
13	0249	0545	3.7F
M	0853	1139	4.9E
	1502	1802	3.8F
	2111		
14		0005	5.2E
Tu	0338	0634	3.8F
	0942	1231	4.9E
	1551	1853	3.9F
	2201		
15		0056	5.2E
W	0429	0723	3.8F
	1032	1320	4.9E
	1642	1943	3.8F
	2253		
16		0147	5.2E
Th	0522	0816	3.7F
	1125	1411	4.9E
	1736	2038	3.8F
	2347		
17		0241	5.0E
F	0617	0911	3.6F
	1219	1506	4.8E
	1834	2135	3.6F
18	0044	0336	4.9E
Sa	0715	1011	3.4F
	1317	1605	4.6E
	1936	2236	3.4F
19	0145	0437	4.6E
Su	0817	1112	3.3F
	1418	1707	4.5E
	2042	2344	3.3F
20	0249	0543	4.5E
M	0920	1220	3.2F
	1521	1816	4.4E
	2150		
21		0052	3.2F
Tu	0353	0654	4.3E
	1024	1328	3.2F
	1623	1928	4.3E
	2255		
22		0201	3.2F
W	0456	0806	4.3E
	1124	1429	3.2F
	1722	2036	4.4E
	2356		
23		0303	3.3F
Th	0554	0909	4.3E
	1219	1526	3.3F
	1817	2137	4.5E
24	0051	0356	3.3F
F	0648	1003	4.4E
	1310	1615	3.4F
	1908	2226	4.6E
25	0141	0445	3.4F
Sa	0736	1046	4.5E
	1356	1703	3.5F
	1954	2307	4.7E
26	0226	0528	3.4F
Su	0821	1127	4.5E
	1439	1744	3.5F
	2038	2346	4.7E
27	0309	0609	3.5F
M	0903	1200	4.6E
	1520	1821	3.5F
	2119		
28		0021	4.7E
Tu	0349	0648	3.5F
	0944	1237	4.6E
	1600	1900	3.5F
	2159		
29		0056	4.8E
W	0429	0723	3.4F
	1023	1312	4.6E
	1639	1937	3.5F
	2239		
30		0133	4.7E
Th	0508	0759	3.4F
	1103	1348	4.5E
	1718	2013	3.4F
	2319		
31		0210	4.7E
F	0547	0837	3.3F
	1143	1427	4.5E
	1757	2054	3.3F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0000	0251	4.6E
Sa	0628	0916	3.2F
	1223	1508	4.4E
	1838	2135	3.2F
2	0041	0332	4.5E
Su	0709	1001	3.1F
	1305	1549	4.4E
	1921	2218	3.1F
3	0125	0417	4.5E
M	0752	1044	3.0F
	1349	1637	4.3E
	2006	2304	3.0F
4	0211	0502	4.4E
Tu	0837	1129	2.9F
	1435	1726	4.3E
	2056	2353	3.0F
5	0301	0551	4.3E
W	0925	1216	2.9F
	1525	1815	4.3E
	2149		
6		0046	3.0F
Th	0353	0643	4.3E
	1015	1312	3.0F
	1617	1910	4.4E
	2245		
7		0139	3.0F
F	0448	0736	4.4E
	1107	1403	3.1F
	1711	2007	4.6E
	2342		
8		0236	3.2F
Sa	0544	0833	4.5E
	1201	1458	3.3F
	1806	2103	4.7E
9	0039	0332	3.3F
Su	0639	0928	4.6E
	1254	1553	3.5F
	1901	2158	4.9E
10	0135	0428	3.5F
M	0734	1022	4.7E
	1348	1648	3.6F
	1956	2253	5.0E
11	0229	0524	3.6F
Tu	0829	1117	4.8E
	1442	1742	3.8F
	2051	2348	5.1E
12	0324	0618	3.7F
W	0922	1212	4.9E
	1537	1838	3.8F
	2146		
13		0042	5.2E
Th	0418	0711	3.7F
	1016	1307	5.0E
	1632	1933	3.9F
	2241		
14		0137	5.2E
F	0512	0806	3.7F
	1111	1402	4.9E
	1729	2029	3.8F
	2336		
15		0232	5.1E
Sa	0607	0903	3.7F
	1206	1457	4.9E
	1827	2126	3.7F
16	0033	0329	4.9E
Su	0704	1001	3.5F
	1302	1555	4.8E
	1926	2227	3.6F
17	0130	0427	4.7E
M	0801	1059	3.4F
	1359	1656	4.6E
	2028	2328	3.4F
18	0229	0525	4.6E
Tu	0900	1158	3.3F
	1457	1757	4.5E
	2130		
19		0029	3.3F
W	0328	0630	4.4E
	0958	1301	3.2F
	1555	1904	4.4E
	2231		
20		0135	3.2F
Th	0427	0735	4.3E
	1056	1358	3.2F
	1653	2007	4.4E
	2330		
21		0234	3.1F
F	0523	0835	4.2E
	1150	1456	3.2F
	1747	2108	4.4E
22	0025	0329	3.1F
Sa	0616	0928	4.2E
	1241	1547	3.2F
	1838	2154	4.4E
23	0115	0416	3.2F
Su	0705	1015	4.3E
	1328	1634	3.2F
	1925	2239	4.5E
24	0201	0502	3.2F
M	0751	1054	4.3E
	1412	1717	3.3F
	2010	2316	4.5E
25	0243	0543	3.3F
Tu	0834	1131	4.4E
	1454	1756	3.4F
	2052	2353	4.6E
26	0324	0621	3.3F
W	0915	1209	4.5E
	1534	1834	3.4F
	2133		
27		0030	4.7E
Th	0403	0657	3.3F
	0956	1244	4.5E
	1613	1910	3.4F
	2213		
28		0106	4.7E
F	0442	0734	3.3F
	1035	1322	4.6E
	1651	1946	3.4F
	2253		
29		0145	4.7E
Sa	0520	0810	3.3F
	1114	1359	4.6E
	1729	2025	3.4F
	2333		
30		0222	4.7E
Su	0558	0847	3.3F
	1153	1442	4.6E
	1807	2103	3.4F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0012	0303	4.7E	16	0112	0407	4.8E
M	0635	0926	3.2F	Tu	0735	1033	3.5F
	1232	1519	4.6E		1336	1633	4.7E
	1847	2145	3.3F		2002	2304	3.5F
2	0053	0344	4.6E	17	0206	0500	4.5E
Tu	0714	1007	3.2F	W	0829	1131	3.4F
	1313	1604	4.6E		1430	1728	4.5E
	1930	2227	3.2F		2059		
3	0136	0428	4.5E	18		0000	3.3F
W	0755	1050	3.1F	Th	0301	0556	4.3E
	1356	1649	4.5E		0924	1226	3.2F
	2016	2316	3.2F		1526	1827	4.3E
					2157		
4	0223	0515	4.5E	19		0100	3.1F
Th	0839	1138	3.1F	F	0356	0655	4.1E
	1444	1740	4.5E		1019	1324	3.1F
	2108				1621	1926	4.2E
					2255		
5		0005	3.1F	20		0201	3.0F
F	0315	0606	4.4E	Sa	0452	0754	4.0E
	0930	1229	3.1F		1115	1423	3.0F
	1538	1834	4.5E		1716	2024	4.1E
	2206				2350		
6		0101	3.1F	21		0255	3.0F
Sa	0411	0701	4.4E	Su	0546	0851	4.0E
	1025	1326	3.2F		1207	1518	3.0F
	1636	1933	4.6E		1809	2121	4.1E
	2308						
7		0202	3.1F	22	0042	0346	3.0F
Su	0511	0758	4.4E	M	0636	0944	4.0E
	1125	1427	3.3F		1257	1605	3.1F
	1737	2032	4.7E		1859	2206	4.2E
8	0011	0305	3.2F	23	0130	0433	3.1F
M	0612	0900	4.5E	Tu	0724	1024	4.1E
	1227	1531	3.4F		1342	1650	3.2F
	1839	2133	4.8E		1945	2251	4.3E
9	0113	0406	3.4F	24	0214	0516	3.2F
Tu	0713	1001	4.6E	W	0808	1104	4.3E
	1328	1630	3.6F		1425	1730	3.3F
	1939	2235	4.9E		2029	2328	4.5E
10	0212	0508	3.5F	25	0255	0553	3.3F
W	0811	1100	4.8E	Th	0850	1143	4.4E
	1427	1730	3.7F		1505	1809	3.4F
	2038	2336	5.0E		2110		
11	0309	0605	3.7F	26		0004	4.6E
Th	0908	1159	4.9E	F	0334	0630	3.4F
	1525	1828	3.9F		0930	1218	4.5E
	2135				1543	1844	3.5F
					2150		
12		0031	5.1E	27		0041	4.7E
F	0404	0701	3.8F	Sa	0411	0706	3.4F
	1003	1257	5.0E		1009	1255	4.6E
	1621	1923	3.9F		1621	1921	3.6F
	2230				2229		
13		0128	5.1E	28		0117	4.7E
Sa	0457	0754	3.8F	Su	0447	0741	3.5F
	1057	1351	5.0E		1047	1332	4.7E
	1716	2018	3.9F		1657	1957	3.6F
	2324				2308		
14		0220	5.1E	29		0154	4.8E
Su	0550	0847	3.8F	M	0523	0817	3.5F
	1150	1445	5.0E		1124	1411	4.7E
	1811	2113	3.8F		1734	2034	3.6F
					2346		
15	0018	0313	4.9E	30		0233	4.8E
M	0642	0942	3.7F	Tu	0558	0854	3.5F
	1243	1539	4.9E		1202	1452	4.8E
	1906	2208	3.7F		1812	2113	3.5F
				31	0026	0314	4.7E
				W	0634	0935	3.4F
					1241	1535	4.7E
					1853	2156	3.5F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0108	0355	4.6E	16	0231	0515	4.2E
Th	0713	1016	3.4F	F	0843	1147	3.2F
	1325	1621	4.7E		1454	1743	4.2E
	1939	2243	3.4F		2116		
2	0154	0444	4.5E	17		0019	3.1F
F	0757	1105	3.3F	Sa	0325	0608	3.9E
	1414	1708	4.6E		0937	1245	3.0F
	2031	2335	3.2F		1549	1839	4.0E
					2213		
3	0246	0535	4.4E	18		0121	2.9F
Sa	0849	1158	3.2F	Su	0420	0707	3.8E
	1510	1803	4.5E		1033	1344	2.9F
	2131				1645	1941	3.9E
					2310		
4		0032	3.1F	19		0220	2.8F
Su	0345	0631	4.3E	M	0515	0803	3.7E
	0949	1258	3.2F		1128	1440	2.9F
	1613	1904	4.5E		1741	2040	3.9E
	2238						
5		0135	3.1F	20	0004	0313	2.9F
M	0449	0732	4.3E	Tu	0608	0902	3.8E
	1057	1403	3.3F		1220	1533	3.0F
	1720	2010	4.5E		1833	2133	4.0E
	2348						
6		0245	3.2F	21	0054	0400	3.0F
Tu	0556	0839	4.3E	W	0657	0953	3.9E
	1206	1512	3.4F		1308	1620	3.2F
	1827	2117	4.6E		1920	2219	4.1E
7	0054	0354	3.3F	22	0139	0445	3.2F
W	0700	0947	4.5E	Th	0742	1034	4.1E
	1312	1619	3.6F		1352	1701	3.3F
	1930	2223	4.7E		2004	2258	4.3E
8	0155	0455	3.6F	23	0220	0523	3.3F
Th	0800	1051	4.7E	F	0824	1111	4.3E
	1414	1722	3.8F		1432	1740	3.5F
	2030	2324	4.9E		2046	2336	4.5E
9	0252	0553	3.8F	24	0259	0559	3.5F
F	0856	1149	4.9E	Sa	0904	1149	4.5E
	1511	1817	4.0F		1511	1815	3.6F
	2125				2126		
10		0021	5.0E	25		0011	4.6E
Sa	0345	0647	3.9F	Su	0335	0634	3.6F
	0949	1245	5.0E		0941	1225	4.7E
	1605	1912	4.0F		1548	1852	3.7F
	2218				2204		
11		0113	5.1E	26		0048	4.7E
Su	0435	0738	4.0F	M	0411	0709	3.7F
	1041	1335	5.1E		1018	1303	4.8E
	1657	2003	4.0F		1625	1928	3.8F
	2309				2242		
12		0204	5.0E	27		0127	4.8E
M	0524	0827	3.9F	Tu	0445	0746	3.7F
	1130	1426	5.0E		1055	1343	4.9E
	1748	2051	4.0F		1702	2005	3.8F
	2359				2321		
13		0252	4.9E	28		0204	4.8E
Tu	0613	0916	3.8F	W	0520	0823	3.7F
	1220	1513	4.9E		1134	1422	4.9E
	1838	2142	3.8F		1740	2047	3.7F
14	0049	0338	4.7E	29	0000	0243	4.7E
W	0701	1005	3.6F	Th	0556	0902	3.6F
	1310	1601	4.7E		1214	1505	4.8E
	1929	2233	3.6F		1822	2128	3.6F
15	0139	0427	4.4E	30	0043	0328	4.6E
Th	0751	1053	3.4F	F	0637	0947	3.6F
	1401	1652	4.4E		1300	1552	4.7E
	2022	2326	3.3F		1909	2215	3.5F
				31	0131	0418	4.5E
				Sa	0723	1036	3.4F
					1351	1643	4.6E
					2003	2308	3.3F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1991

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0226	0509	4.3E	16		0034	2.9F
Su	0818	1134	3.3F	M	0345	0616	3.7E
	1451	1742	4.4E		0949	1300	2.9F
	2106				1610	1849	3.7E
					2226		
2		0011	3.2F	17		0133	2.8F
M	0329	0608	4.2E	Tu	0441	0719	3.6E
	0925	1239	3.2F		1047	1401	2.9F
	1559	1844	4.3E		1707	1950	3.7E
	2218				2322		
3		0119	3.1F	18		0232	2.8F
Tu	0438	0715	4.1E	W	0535	0817	3.7E
	1040	1350	3.3F		1142	1456	3.0F
	1711	1955	4.3E		1800	2049	3.8E
	2331						
4		0233	3.2F	19	0014	0324	3.0F
W	0546	0827	4.2E	Th	0625	0909	3.9E
	1154	1505	3.4F		1232	1543	3.1F
	1819	2108	4.4E		1849	2138	4.0E
5	0038	0344	3.4F	20	0100	0409	3.2F
Th	0650	0938	4.4E	F	0710	0954	4.1E
	1301	1612	3.6F		1317	1628	3.3F
	1922	2216	4.6E		1934	2219	4.2E
6	0138	0445	3.6F	21	0143	0448	3.4F
F	0749	1042	4.7E	Sa	0752	1039	4.4E
	1401	1711	3.9F		1359	1707	3.5F
	2019	2316	4.8E		2016	2258	4.4E
7	0233	0539	3.8F	22	0222	0524	3.5F
Sa	0842	1140	4.9E	Su	0831	1117	4.6E
	1455	1807	4.0F		1438	1745	3.7F
	2112				2056	2339	4.6E
8		0009	4.9E	23	0259	0602	3.7F
Su	0323	0630	4.0F	M	0910	1156	4.8E
	0933	1231	5.0E		1517	1821	3.8F
	1546	1856	4.1F		2135		
	2202						
9		0056	5.0E	24		0017	4.7E
M	0410	0715	4.0F	Tu	0335	0638	3.8F
	1021	1318	5.0E		0948	1235	4.9E
	1635	1943	4.1F		1555	1858	3.9F
	2249				2214		
10		0142	4.9E	25		0056	4.8E
Tu	0456	0802	4.0F	W	0411	0715	3.8F
	1107	1403	5.0E		1027	1316	5.0E
	1722	2028	4.0F		1635	1939	3.9F
	2336				2254		
11		0223	4.8E	26		0136	4.8E
W	0541	0847	3.9F	Th	0448	0754	3.8F
	1154	1444	4.8E		1107	1357	5.0E
	1808	2113	3.8F		1716	2020	3.8F
					2336		
12	0022	0307	4.6E	27		0219	4.7E
Th	0626	0933	3.7F	F	0528	0838	3.8F
	1240	1527	4.6E		1151	1442	4.9E
	1855	2159	3.5F		1801	2107	3.7F
13	0109	0348	4.3E	28	0022	0304	4.6E
F	0712	1017	3.4E	Sa	0612	0923	3.6F
	1328	1611	4.4E		1240	1531	4.8E
	1943	2247	3.3F		1850	2156	3.5F
14	0158	0433	4.1E	29	0113	0355	4.5E
Sa	0801	1105	3.2F	Su	0703	1018	3.5F
	1419	1659	4.1E		1335	1625	4.6E
	2034	2338	3.0F		1948	2252	3.3F
15	0250	0522	3.8E	30	0211	0450	4.3E
Su	0853	1200	3.0F	M	0805	1117	3.3F
	1513	1752	3.9E		1439	1722	4.4E
	2129				2054	2357	3.1F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0317	0554	4.1E	16		0046	2.8F
Tu	0917	1229	3.2F	W	0357	0630	3.7E
	1549	1831	4.2E		1006	1310	2.8F
	2207				1623	1900	3.8E
					2240		
2		0110	3.1F	17		0142	2.8F
W	0427	0705	4.1E	Th	0451	0727	3.8E
	1034	1345	3.2F		1101	1407	2.9F
	1701	1945	4.2E		1717	1958	3.9E
	2319				2333		
3		0227	3.2F	18		0235	2.9F
Th	0535	0822	4.2E	F	0541	0823	3.9E
	1147	1500	3.4F		1153	1459	3.1F
	1808	2102	4.3E		1807	2049	4.0E
4	0024	0334	3.4F	19	0020	0324	3.1F
F	0636	0931	4.4E	Sa	0628	0912	4.2E
	1251	1606	3.6F		1241	1547	3.3F
	1909	2208	4.5E		1854	2138	4.3E
5	0121	0431	3.7F	20	0104	0405	3.3F
Sa	0732	1034	4.7E	Su	0712	0957	4.4E
	1348	1701	3.8F		1325	1629	3.5F
	2003	2304	4.7E		1938	2221	4.5E
6	0213	0522	3.8F	21	0145	0445	3.5F
Su	0823	1127	4.9E	M	0754	1042	4.7E
	1440	1750	4.0F		1408	1711	3.6F
	2053	2353	4.8E		2021	2302	4.6E
7	0301	0610	3.9F	22	0225	0524	3.7F
M	0911	1212	5.0E	Tu	0835	1123	4.9E
	1527	1837	4.0F		1450	1749	3.8F
	2140				2103	2345	4.8E
8		0034	4.8E	23	0304	0607	3.8F
Tu	0346	0653	4.0F	W	0916	1206	5.0E
	0956	1253	5.0E		1532	1833	3.8F
	1613	1920	4.0F		2145		
	2225						
9		0115	4.8E	24		0028	4.9E
W	0429	0735	3.9F	Th	0344	0647	3.9F
	1040	1336	4.9E		0959	1251	5.1E
	1657	2003	3.9F		1615	1916	3.8F
	2308				2228		
10		0154	4.7E	25		0111	4.9E
Th	0512	0816	3.8F	F	0426	0730	3.9F
	1124	1415	4.8E		1043	1335	5.1E
	1740	2044	3.7F		1701	1959	3.8F
	2352				2313		
11		0234	4.5E	26		0158	4.8E
F	0555	0858	3.6F	Sa	0512	0819	3.8F
	1208	1454	4.6E		1131	1424	5.0E
	1824	2122	3.5F		1750	2051	3.6F
12	0036	0314	4.3E	27	0002	0247	4.7E
Sa	0638	0940	3.4F	Su	0602	0908	3.7F
	1253	1535	4.4E		1223	1515	4.8E
	1909	2211	3.2F		1844	2142	3.5F
13	0122	0356	4.1E	28	0057	0339	4.5E
Su	0724	1027	3.2F	M	0659	1007	3.5F
	1341	1621	4.2E		1321	1612	4.6E
	1958	2257	3.0F		1944	2243	3.3F
14	0211	0443	3.9E	29	0157	0438	4.4E
M	0814	1115	3.0F	Tu	0805	1109	3.3F
	1432	1709	4.0E		1426	1713	4.4E
	2049	2350	2.8F		2051	2350	3.2F
15	0303	0535	3.8E	30	0302	0545	4.2E
Tu	0909	1213	2.8F	W	0917	1222	3.2F
	1527	1804	3.8E		1535	1822	4.3E
	2145				2200		
				31		0101	3.1F
				Th	0410	0656	4.2E
					1031	1339	3.2F
					1644	1937	4.2E
					2308		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0214	3.2F	16		0141	2.8F
F	0515	0813	4.3E	Sa	0449	0734	4.1E
	1139	1448	3.3F		1113	1409	2.9F
	1749	2049	4.3E		1717	2003	4.2E
					2337		
2	0009	0317	3.4F	17		0232	3.0F
Sa	0615	0924	4.5E	Su	0538	0827	4.3E
	1240	1549	3.5F		1204	1458	3.1F
	1847	2154	4.5E		1807	2053	4.3E
3	0104	0413	3.6F	18	0024	0321	3.2F
Su	0709	1019	4.7E	M	0626	0917	4.5E
	1335	1642	3.7F		1253	1549	3.3F
	1940	2245	4.6E		1856	2140	4.5E
4	0154	0502	3.7F	19	0109	0409	3.4F
M	0759	1108	4.8E	Tu	0713	1005	4.8E
	1424	1730	3.7F		1340	1635	3.5F
	2028	2332	4.7E		1943	2229	4.7E
5	0241	0547	3.8F	20	0154	0454	3.6F
Tu	0845	1152	4.9E	W	0800	1055	5.0E
	1510	1815	3.8F		1427	1723	3.6F
	2113				2030	2317	4.8E
6		0011	4.7E	21	0239	0539	3.7F
W	0324	0628	3.8F	Th	0846	1142	5.1E
	0929	1233	4.9E		1515	1809	3.7F
	1554	1856	3.7F		2116		
	2156						
7		0050	4.7E	22		0005	4.9E
Th	0407	0711	3.7F	F	0325	0627	3.8F
	1012	1310	4.9E		0934	1231	5.2E
	1636	1937	3.7F		1603	1857	3.7F
	2238				2204		
8		0126	4.7E	23		0052	4.9E
F	0448	0750	3.6F	Sa	0414	0715	3.8F
	1053	1347	4.8E		1024	1320	5.2E
	1718	2015	3.5F		1653	1947	3.7F
	2319				2254		
9		0204	4.6E	24		0142	4.9E
Sa	0529	0828	3.5F	Su	0505	0805	3.8F
	1135	1425	4.7E		1116	1411	5.1E
	1759	2054	3.4F		1745	2038	3.6F
					2346		
10	0001	0243	4.4E	25		0235	4.8E
Su	0611	0909	3.3F	M	0600	0900	3.7F
	1218	1506	4.5E		1210	1503	5.0E
	1842	2135	3.2F		1841	2133	3.5F
11	0044	0326	4.3E	26	0041	0330	4.7E
M	0655	0951	3.2F	Tu	0659	0959	3.5F
	1302	1549	4.4E		1308	1602	4.8E
	1927	2220	3.0F		1940	2233	3.3F
12	0129	0407	4.1E	27	0140	0427	4.6E
Tu	0742	1036	3.0F	W	0804	1102	3.3F
	1349	1633	4.2E		1410	1703	4.6E
	2015	2306	2.9F		2043	2337	3.2F
13	0216	0456	4.0E	28	0242	0535	4.4E
W	0832	1128	2.9F	Th	0912	1210	3.2F
	1439	1722	4.1E		1515	1808	4.4E
	2105	2357	2.8F		2148		
14	0306	0547	4.0E	29		0046	3.2F
Th	0925	1220	2.8F	F	0346	0645	4.4E
	1531	1813	4.0E		1021	1322	3.2F
	2157				1620	1920	4.3E
					2251		
15		0050	2.9F	30		0154	3.2F
F	0358	0639	4.0E	Sa	0449	0756	4.4E
	1019	1315	2.8F		1126	1431	3.2F
	1624	1906	4.1E		1722	2032	4.4E
	2248				2351		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0255	3.3F	16		0142	2.9F
Su	0548	0904	4.5E	M	0447	0742	4.5E
	1225	1531	3.3F		1124	1413	3.0F
	1820	2133	4.4E		1719	2008	4.4E
					2343		
2	0046	0352	3.4F	17		0239	3.1F
M	0642	1003	4.6E	Tu	0541	0838	4.6E
	1319	1622	3.4F		1220	1510	3.1F
	1912	2223	4.5E		1814	2103	4.5E
3	0136	0441	3.4F	18	0035	0330	3.3F
Tu	0732	1050	4.7E	W	0636	0933	4.8E
	1408	1711	3.4F		1314	1606	3.3F
	2000	2310	4.6E		1908	2157	4.6E
4	0222	0527	3.5F	19	0127	0426	3.4F
W	0819	1133	4.8E	Th	0730	1029	4.9E
	1454	1754	3.5F		1408	1657	3.4F
	2045	2349	4.6E		2001	2252	4.8E
5	0305	0609	3.5F	20	0219	0517	3.6F
Th	0902	1211	4.8E	F	0823	1123	5.1E
	1536	1833	3.5F		1500	1750	3.6F
	2127				2053	2345	4.9E
6		0026	4.6E	21	0312	0610	3.8F
F	0347	0645	3.5F	Sa	0917	1215	5.2E
	0944	1247	4.8E		1552	1844	3.7F
	1617	1914	3.4F		2146		
	2208						
7		0102	4.6E	22		0038	5.0E
Sa	0428	0726	3.5F	Su	0405	0703	3.8F
	1025	1322	4.8E		1010	1308	5.2E
	1657	1949	3.4F		1644	1935	3.7F
	2248				2238		
8		0138	4.6E	23		0131	5.0E
Su	0507	0803	3.4F	M	0459	0757	3.8F
	1105	1359	4.8E		1104	1401	5.2E
	1737	2027	3.3F		1737	2028	3.7F
	2328				2331		
9		0216	4.6E	24		0226	5.0E
M	0547	0841	3.3F	Tu	0555	0851	3.7F
	1145	1438	4.7E		1158	1454	5.1E
	1817	2106	3.2F		1832	2123	3.6F
10	0008	0255	4.5E	25	0026	0320	4.9E
Tu	0628	0920	3.2F	W	0653	0951	3.6F
	1226	1519	4.6E		1254	1551	4.9E
	1858	2146	3.1F		1928	2220	3.5F
11	0049	0336	4.4E	26	0122	0417	4.8E
W	0710	1001	3.1F	Th	0753	1049	3.4F
	1308	1600	4.5E		1352	1649	4.7E
	1940	2227	3.0F		2026	2318	3.3F
12	0131	0420	4.4E	27	0219	0518	4.6E
Th	0755	1046	3.0F	F	0856	1152	3.3F
	1353	1643	4.4E		1452	1747	4.5E
	2024	2312	2.9F		2126		
13	0216	0505	4.3E	28		0024	3.2F
F	0843	1134	2.9F	Sa	0319	0623	4.5E
	1440	1732	4.3E		1000	1257	3.1F
	2111				1552	1854	4.4E
					2227		
14		0001	2.8F	29		0127	3.1F
Sa	0303	0554	4.3E	Su	0419	0730	4.4E
	0934	1225	2.9F		1104	1403	3.0F
	1531	1823	4.3E		1653	2003	4.3E
	2159				2326		
15		0049	2.9F	30		0230	3.1F
Su	0354	0647	4.4E	M	0518	0839	4.4E
	1029	1320	2.9F		1204	1504	3.0F
	1624	1913	4.3E		1750	2109	4.3E
	2250						
				31	0023	0328	3.1F
				Tu	0614	0940	4.5E
					1259	1559	3.1F
					1844	2202	4.3E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THE NARROWS, NEW YORK HARBOR, NEW YORK, 1991

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0036	2.3E
Tu	0358	0642	2.5F
	0957	1316	2.6E
	1652	1915	1.9F
	2212		
2		0130	2.3E
W	0450	0733	2.4F
	1048	1405	2.6E
	1740	2007	1.9F
	2307		
3		0221	2.3E
Th	0543	0824	2.2F
	1138	1454	2.5E
	1829	2100	1.9F
4	0001	0311	2.3E
F	0639	0919	2.0F
	1226	1539	2.4E
	1920	2158	1.8F
5	0055	0402	2.1E
Sa	0737	1017	1.8F
	1314	1628	2.2E
	2012	2254	1.8F
6	0148	0456	1.9E
Su	0838	1110	1.6F
	1402	1721	2.0E
	2104	2345	1.7F
7	0243	0557	1.8E
M	0939	1203	1.4F
	1451	1817	1.8E
	2156		
8		0036	1.7F
Tu	0340	0659	1.7E
	1038	1255	1.2F
	1544	1913	1.7E
	2248		
9		0133	1.6F
W	0440	0800	1.7E
	1137	1403	1.1F
	1640	2007	1.7E
	2339		
10		0236	1.6F
Th	0538	0853	1.7E
	1234	1518	1.0F
	1737	2059	1.6E
11	0030	0340	1.6F
F	0630	0944	1.8E
	1329	1619	1.1F
	1830	2147	1.6E
12	0120	0431	1.7F
Sa	0717	1029	1.8E
	1420	1704	1.1F
	1920	2232	1.6E
13	0208	0514	1.8F
Su	0801	1117	1.9E
	1506	1746	1.2F
	2006	2320	1.7E
14	0253	0545	1.8F
M	0842	1202	2.0E
	1548	1817	1.3F
	2050		
15		0006	1.7E
Tu	0335	0615	1.9F
	0922	1244	2.0E
	1627	1845	1.4F
	2133		
16		0051	1.8E
W	0416	0650	1.9F
	1003	1325	2.1E
	1705	1916	1.5F
	2216		
17		0133	1.8E
Th	0455	0729	1.9F
	1043	1403	2.1E
	1741	1957	1.5F
	2259		
18		0214	1.9E
F	0535	0810	1.8F
	1122	1439	2.1E
	1817	2038	1.6F
	2343		
19		0253	1.9E
Sa	0617	0855	1.7F
	1202	1516	2.1E
	1853	2123	1.6F
20	0027	0333	1.9E
Su	0704	0941	1.6F
	1243	1551	2.0E
	1933	2210	1.7F
21	0114	0419	1.8E
M	0759	1030	1.5F
	1325	1630	1.9E
	2017	2259	1.7F
22	0204	0512	1.6E
Tu	0900	1121	1.4F
	1411	1724	1.8E
	2106	2349	1.8F
23	0259	0615	1.7E
W	1002	1214	1.3F
	1504	1827	1.8E
	2200		
24		0042	1.8F
Th	0400	0721	1.8E
	1105	1311	1.2F
	1604	1932	1.8E
	2258		
25		0139	1.8F
F	0504	0824	1.9E
	1207	1411	1.2F
	1709	2033	1.9E
	2358		
26		0242	1.9F
Sa	0606	0921	2.0E
	1307	1521	1.3F
	1813	2130	2.0E
27	0059	0352	2.0F
Su	0704	1016	2.2E
	1404	1632	1.5F
	1912	2226	2.1E
28	0158	0452	2.2F
M	0758	1111	2.3E
	1456	1728	1.7F
	2009	2324	2.2E
29	0255	0545	2.3F
Tu	0850	1205	2.4E
	1544	1815	1.9F
	2103		
30		0021	2.3E
W	0347	0633	2.4F
	0939	1257	2.5E
	1630	1901	2.0F
	2156		
31		0115	2.4E
Th	0438	0718	2.3F
	1027	1344	2.5E
	1715	1947	2.0F
	2248		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0204	2.4E
F	0528	0804	2.2F
	1114	1429	2.5E
	1800	2034	2.0F
	2339		
2		0250	2.3E
Sa	0619	0854	2.0F
	1159	1513	2.4E
	1846	2124	1.9F
3	0029	0336	2.2E
Su	0713	0945	1.7F
	1243	1556	2.2E
	1935	2215	1.8F
4	0118	0424	2.0E
M	0809	1033	1.5F
	1328	1642	2.0E
	2026	2304	1.7F
5	0208	0518	1.8E
Tu	0908	1124	1.3F
	1414	1733	1.7E
	2118	2352	1.6F
6	0301	0619	1.6E
W	1007	1214	1.1F
	1503	1832	1.6E
	2211		
7		0043	1.5F
Th	0357	0720	1.6E
	1105	1311	1.0F
	1600	1931	1.5E
	2304		
8		0139	1.4F
F	0456	0820	1.6E
	1203	1425	0.9F
	1700	2026	1.5E
	2358		
9		0251	1.4F
Sa	0554	0910	1.7E
	1258	1545	1.0F
	1800	2115	1.5E
10	0050	0400	1.5F
Su	0645	0957	1.7E
	1349	1638	1.1F
	1853	2206	1.6E
11	0141	0445	1.6F
M	0731	1044	1.8E
	1435	1719	1.3F
	1941	2252	1.7E
12	0229	0524	1.7F
Tu	0814	1129	1.9E
	1517	1752	1.4F
	2025	2340	1.8E
13	0313	0553	1.8F
W	0855	1214	2.0E
	1555	1817	1.5F
	2108		
14		0026	1.9E
Th	0355	0628	1.9F
	0935	1256	2.1E
	1631	1850	1.7F
	2150		
15		0109	2.0E
F	0435	0703	1.9F
	1014	1335	2.2E
	1705	1926	1.8F
	2233		
16		0150	2.1E
Sa	0515	0744	1.9F
	1054	1413	2.2E
	1739	2007	1.8F
	2316		
17		0230	2.1E
Su	0557	0829	1.8F
	1134	1448	2.2E
	1813	2052	1.9F
18	0001	0311	2.1E
M	0644	0916	1.7F
	1216	1523	2.1E
	1853	2142	1.9F
19	0049	0356	2.1E
Tu	0737	1005	1.5F
	1259	1604	2.0E
	1939	2231	1.9F
20	0139	0446	1.9E
W	0838	1058	1.4F
	1347	1653	1.9E
	2034	2324	1.9F
21	0234	0549	1.8E
Th	0942	1152	1.3F
	1441	1800	1.8E
	2136		
22		0019	1.8F
F	0336	0658	1.8E
	1045	1249	1.2F
	1543	1912	1.7E
	2240		
23		0116	1.8F
Sa	0442	0804	1.9E
	1147	1352	1.2F
	1652	2017	1.8E
	2345		
24		0226	1.8F
Su	0547	0902	2.0E
	1246	1509	1.3F
	1759	2118	2.0E
25	0048	0341	1.9F
M	0647	0959	2.1E
	1342	1626	1.5F
	1900	2213	2.1E
26	0148	0448	2.1F
Tu	0741	1052	2.3E
	1433	1719	1.8F
	1956	2310	2.2E
27	0244	0537	2.2F
W	0830	1143	2.3E
	1520	1804	2.0F
	2048		
28		0005	2.3E
Th	0335	0622	2.2F
	0917	1233	2.4E
	1605	1843	2.1F
	2138		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0054	2.4E
F	0424	0703	2.1F
	1002	1320	2.4E
	1647	1924	2.1F
	2226		
2		0143	2.4E
Sa	0511	0744	2.0F
	1046	1403	2.4E
	1730	2005	2.0F
	2314		
3		0227	2.3E
Su	0559	0827	1.8F
	1129	1444	2.2E
	1813	2050	1.9F
4	0000	0311	2.2E
M	0648	0913	1.5F
	1212	1525	2.1E
	1857	2136	1.8F
5	0046	0356	2.0E
Tu	0741	0959	1.4F
	1255	1608	1.9E
	1946	2222	1.7F
6	0133	0443	1.8E
W	0837	1050	1.2F
	1339	1654	1.6E
	2038	2313	1.6F
7	0222	0538	1.6E
Th	0935	1139	1.1F
	1428	1750	1.5E
	2134		
8		0001	1.5F
F	0315	0639	1.5E
	1032	1232	1.0F
	1524	1852	1.4E
	2230		
9		0054	1.4F
Sa	0412	0740	1.5E
	1128	1331	0.9F
	1626	1952	1.4E
	2325		
10		0152	1.3F
Su	0511	0835	1.6E
	1221	1448	1.0F
	1728	2046	1.5E
11	0020	0302	1.4F
M	0607	0924	1.7E
	1311	1557	1.1F
	1824	2138	1.6E
12	0113	0407	1.5F
Tu	0656	1010	1.8E
	1357	1642	1.3F
	1913	2225	1.7E
13	0202	0448	1.6F
W	0740	1054	1.9E
	1439	1714	1.5F
	1958	2311	1.9E
14	0249	0527	1.8F
Th	0822	1136	2.0E
	1517	1745	1.7F
	2040	2356	2.0E
15	0332	0602	1.8F
F	0903	1220	2.1E
	1553	1818	1.9F
	2123		
16		0043	2.2E
Sa	0414	0639	1.9F
	0943	1301	2.2E
	1627	1858	2.0F
	2206		
17		0126	2.3E
Su	0456	0719	1.9F
	1024	1341	2.2E
	1702	1939	2.1F
	2251		
18		0208	2.3E
M	0539	0804	1.8F
	1107	1421	2.2E
	1739	2024	2.1F
	2338		
19		0253	2.3E
Tu	0626	0851	1.7F
	1151	1502	2.1E
	1821	2113	2.1F
20	0027	0336	2.2E
W	0721	0943	1.5F
	1238	1545	2.0E
	1912	2208	2.0F
21	0119	0427	2.1E
Th	0821	1036	1.4F
	1330	1637	1.9E
	2013	2303	1.9F
22	0215	0528	1.9E
F	0924	1135	1.4F
	1427	1744	1.8E
	2121		
23		0001	1.8F
Sa	0315	0639	1.9E
	1026	1234	1.3F
	1531	1857	1.7E
	2228		
24		0100	1.8F
Su	0420	0744	1.9E
	1125	1340	1.3F
	1640	2004	1.8E
	2334		
25		0213	1.7F
M	0526	0845	2.0E
	1222	1502	1.4F
	1748	2105	2.0E
26	0036	0334	1.8F
Tu	0626	0937	2.1E
	1316	1611	1.7F
	1848	2200	2.1E
27	0136	0435	1.9F
W	0719	1028	2.2E
	1407	1703	1.9F
	1942	2255	2.2E
28	0231	0526	2.0F
Th	0807	1119	2.2E
	1453	1746	2.0F
	2031	2346	2.3E
29	0321	0609	2.0F
F	0852	1208	2.2E
	1537	1825	2.1F
	2118		
30		0036	2.3E
Sa	0408	0646	1.9F
	0935	1251	2.2E
	1619	1900	2.1F
	2203		
31		0122	2.3E
Su	0454	0721	1.8F
	1017	1334	2.2E
	1659	1936	2.0F
	2248		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0205	2.2E
M	0539	0759	1.6F
	1059	1415	2.1E
	1740	2015	1.9F
	2331		
2		0246	2.1E
Tu	0625	0841	1.4F
	1141	1454	1.9E
	1822	2100	1.8F
3	0015	0329	2.0E
W	0715	0928	1.3F
	1225	1535	1.8E
	1908	2145	1.7F
4	0059	0411	1.8E
Th	0808	1017	1.2F
	1310	1620	1.6E
	2000	2237	1.5F
5	0146	0502	1.7E
F	0903	1108	1.1F
	1359	1715	1.4E
	2057	2326	1.4F
6	0235	0557	1.6E
Sa	0958	1158	1.0F
	1453	1814	1.3E
	2155		
7		0017	1.4F
Su	0329	0658	1.6E
	1050	1251	1.0F
	1552	1918	1.3E
	2252		
8		0112	1.3F
M	0426	0751	1.6E
	1140	1348	1.1F
	1653	2014	1.5E
	2347		
9		0210	1.3F
Tu	0523	0846	1.7E
	1228	1451	1.2F
	1750	2105	1.6E
10	0041	0311	1.4F
W	0615	0931	1.8E
	1313	1547	1.4F
	1841	2153	1.8E
11	0133	0407	1.5F
Th	0702	1013	1.9E
	1355	1631	1.6F
	1927	2239	2.0E
12	0221	0451	1.6F
F	0746	1057	2.0E
	1435	1711	1.9F
	2011	2327	2.1E
13	0308	0532	1.7F
Sa	0828	1143	2.1E
	1513	1750	2.1F
	2055		
14		0014	2.3E
Su	0352	0613	1.8F
	0911	1226	2.1E
	1551	1831	2.2F
	2141		
15		0100	2.4E
M	0436	0655	1.8F
	0955	1313	2.2E
	1629	1914	2.3F
	2228		
16		0147	2.4E
Tu	0522	0740	1.8F
	1041	1357	2.2E
	1711	1959	2.3F
	2317		
17		0234	2.4E
W	0611	0831	1.7F
	1130	1442	2.2E
	1759	2050	2.2F
18	0008	0323	2.4E
Th	0706	0926	1.6F
	1222	1531	2.1E
	1854	2148	2.1F
19	0101	0414	2.2E
F	0805	1021	1.5F
	1317	1626	1.9E
	2000	2247	2.0F
20	0157	0512	2.1E
Sa	0906	1121	1.5F
	1417	1731	1.8E
	2109	2346	1.8F
21	0256	0619	2.0E
Su	1005	1223	1.5F
	1521	1842	1.8E
	2216		
22		0048	1.7F
M	0358	0723	2.0E
	1101	1329	1.5F
	1628	1949	1.9E
	2320		
23		0158	1.6F
Tu	0500	0823	2.0E
	1155	1444	1.6F
	1734	2048	2.0E
24	0021	0315	1.6F
W	0559	0914	2.1E
	1248	1551	1.8F
	1832	2144	2.1E
25	0120	0419	1.7F
Th	0652	1003	2.1E
	1337	1642	1.9F
	1924	2235	2.2E
26	0214	0508	1.7F
F	0740	1050	2.1E
	1425	1727	2.0F
	2012	2324	2.2E
27	0305	0551	1.7F
Sa	0824	1137	2.1E
	1509	1804	2.1F
	2056		
28		0012	2.2E
Su	0352	0628	1.6F
	0906	1222	2.0E
	1551	1837	2.1F
	2139		
29		0100	2.2E
M	0437	0659	1.5F
	0948	1306	1.9E
	1631	1909	2.0F
	2222		
30		0141	2.1E
Tu	0520	0737	1.4F
	1030	1349	1.9E
	1710	1945	1.9F
	2304		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0222	2.1E
W	0604	0814	1.3F
	1114	1430	1.8E
	1751	2028	1.8F
	2346		
2		0303	2.0E
Th	0651	0859	1.2F
	1158	1508	1.7E
	1835	2113	1.6F
3	0029	0344	1.9E
F	0740	0949	1.2F
	1245	1551	1.5E
	1925	2204	1.5F
4	0113	0430	1.8E
Sa	0831	1036	1.1F
	1333	1638	1.4E
	2020	2253	1.5F
5	0200	0518	1.7E
Su	0922	1129	1.1F
	1424	1738	1.4E
	2119	2344	1.4F
6	0249	0616	1.6E
M	1011	1216	1.2F
	1519	1841	1.4E
	2217		
7		0034	1.3F
Tu	0341	0712	1.7E
	1057	1307	1.3F
	1617	1938	1.5E
	2312		
8		0125	1.3F
W	0436	0803	1.7E
	1142	1358	1.4F
	1714	2031	1.7E
9	0007	0224	1.3F
Th	0530	0851	1.8E
	1225	1454	1.5F
	1807	2120	1.8E
10	0101	0321	1.4F
F	0620	0934	1.9E
	1309	1546	1.8F
	1856	2206	2.0E
11	0153	0415	1.5F
Sa	0708	1021	2.0E
	1352	1635	2.0F
	1943	2257	2.2E
12	0243	0502	1.6F
Su	0754	1104	2.1E
	1435	1721	2.2F
	2030	2346	2.3E
13	0331	0549	1.7F
M	0840	1156	2.1E
	1519	1804	2.3F
	2118		
14		0039	2.4E
Tu	0418	0632	1.7F
	0928	1247	2.2E
	1604	1850	2.4F
	2207		
15		0127	2.5E
W	0506	0721	1.7F
	1019	1336	2.2E
	1651	1939	2.4F
	2259		
16		0218	2.5E
Th	0555	0812	1.7F
	1113	1427	2.2E
	1743	2032	2.3F
	2351		
17		0307	2.5E
F	0649	0908	1.7F
	1208	1520	2.1E
	1842	2129	2.1F
18	0044	0358	2.4E
Sa	0745	1009	1.6F
	1306	1614	2.0E
	1946	2230	2.0F
19	0138	0453	2.2E
Su	0843	1110	1.6F
	1404	1715	1.9E
	2053	2331	1.8F
20	0234	0554	2.1E
M	0939	1210	1.7F
	1506	1824	1.9E
	2159		
21		0029	1.7F
Tu	0331	0657	2.0E
	1034	1312	1.7F
	1610	1929	1.9E
	2301		
22		0135	1.6F
W	0430	0754	2.0E
	1126	1417	1.7F
	1714	2030	2.0E
23	0001	0249	1.5F
Th	0528	0847	2.0E
	1217	1522	1.8F
	1812	2125	2.0E
24	0100	0354	1.4F
F	0621	0937	2.0E
	1307	1616	1.9F
	1904	2214	2.0E
25	0155	0447	1.4F
Sa	0710	1022	1.9E
	1355	1703	2.0F
	1951	2301	2.1E
26	0247	0532	1.4F
Su	0755	1107	1.9E
	1441	1742	2.0F
	2034	2351	2.1E
27	0334	0611	1.4F
M	0838	1153	1.8E
	1524	1815	2.0F
	2116		
28		0034	2.1E
Tu	0418	0643	1.4F
	0921	1240	1.8E
	1605	1846	1.9F
	2157		
29		0120	2.1E
W	0501	0714	1.3F
	1004	1323	1.7E
	1645	1921	1.9F
	2238		
30		0159	2.1E
Th	0543	0752	1.3F
	1049	1406	1.7E
	1726	1959	1.8F
	2320		
31		0241	2.0E
F	0626	0833	1.2F
	1134	1447	1.7E
	1808	2046	1.7F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0002	0319	2.0E
Sa	0711	0920	1.2F
	1220	1529	1.6E
	1854	2133	1.6F
2	0044	0400	1.9E
Su	0756	1009	1.2F
	1307	1612	1.5E
	1947	2223	1.5F
3	0127	0443	1.8E
M	0843	1058	1.3F
	1355	1659	1.5E
	2043	2312	1.4F
4	0212	0531	1.7E
Tu	0928	1143	1.4F
	1446	1800	1.5E
	2141		
5		0001	1.4F
W	0259	0626	1.7E
	1012	1231	1.4F
	1540	1900	1.5E
	2237		
6		0050	1.3F
Th	0351	0719	1.7E
	1055	1318	1.5F
	1636	1955	1.7E
	2333		
7		0143	1.3F
F	0445	0810	1.8E
	1139	1411	1.7F
	1732	2048	1.9E
8	0029	0239	1.3F
Sa	0539	0859	1.9E
	1225	1509	1.8F
	1826	2137	2.0E
9	0125	0338	1.3F
Su	0632	0947	2.0E
	1313	1603	2.0F
	1917	2228	2.2E
10	0219	0435	1.5F
M	0723	1036	2.0E
	1403	1655	2.2F
	2007	2321	2.3E
11	0310	0524	1.6F
Tu	0814	1127	2.1E
	1454	1743	2.4F
	2058		
12		0015	2.4E
W	0359	0614	1.7F
	0907	1224	2.2E
	1545	1831	2.5F
	2149		
13		0109	2.5E
Th	0448	0703	1.8F
	1001	1320	2.3E
	1637	1922	2.4F
	2241		
14		0200	2.6E
F	0537	0756	1.8F
	1057	1413	2.3E
	1731	2015	2.3F
	2333		
15		0250	2.6E
Sa	0628	0851	1.8F
	1153	1506	2.2E
	1829	2113	2.2F
16	0025	0340	2.5E
Su	0721	0951	1.8F
	1250	1558	2.2E
	1930	2212	2.0F
17	0117	0431	2.3E
M	0815	1053	1.8F
	1347	1656	2.0E
	2034	2312	1.8F
18	0208	0525	2.2E
Tu	0910	1149	1.8F
	1445	1800	1.9E
	2137		
19		0007	1.6F
W	0301	0626	2.0E
	1003	1245	1.8F
	1546	1904	1.9E
	2239		
20		0107	1.4F
Th	0356	0722	1.9E
	1055	1344	1.8F
	1647	2005	1.9E
	2338		
21		0214	1.3F
F	0453	0817	1.9E
	1146	1448	1.8F
	1746	2101	1.9E
22	0037	0323	1.2F
Sa	0548	0907	1.8E
	1237	1549	1.8F
	1839	2150	1.9E
23	0133	0423	1.2F
Su	0640	0953	1.8E
	1327	1642	1.8F
	1927	2239	1.9E
24	0226	0510	1.2F
M	0728	1039	1.7E
	1415	1723	1.9F
	2010	2324	1.9E
25	0314	0553	1.3F
Tu	0813	1127	1.7E
	1500	1756	1.9F
	2052		
26		0011	2.0E
W	0357	0628	1.3F
	0857	1214	1.7E
	1543	1827	1.9F
	2133		
27		0056	2.0E
Th	0439	0657	1.3F
	0941	1300	1.7E
	1624	1859	1.8F
	2213		
28		0137	2.0E
F	0518	0729	1.3F
	1025	1342	1.7E
	1704	1937	1.8F
	2254		
29		0215	2.1E
Sa	0558	0808	1.3F
	1110	1425	1.7E
	1745	2020	1.7F
	2334		
30		0253	2.0E
Su	0637	0851	1.4F
	1154	1504	1.7E
	1828	2103	1.6F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0015	0330	2.0E	16	0051	0404	2.4E
M	0718	0935	1.4F	Tu	0744	1024	1.9F
	1239	1545	1.7E		1324	1633	2.1E
	1916	2152	1.5F		2011	2247	1.7F
2	0056	0409	1.9E	17	0139	0453	2.2E
Tu	0759	1024	1.5F	W	0837	1121	1.9F
	1325	1630	1.6E		1418	1729	1.9E
	2009	2241	1.5F		2113	2339	1.5F
3	0137	0450	1.8E	18	0229	0550	2.0E
W	0842	1109	1.5F	Th	0930	1211	1.8F
	1413	1720	1.6E		1515	1831	1.8E
	2106	2328	1.4F		2213		
4	0221	0539	1.8E	19		0034	1.3F
Th	0925	1156	1.6F	F	0320	0648	1.8E
	1504	1821	1.6E		1023	1307	1.7F
	2204				1614	1935	1.7E
					2312		
5		0018	1.3F	20		0135	1.1F
F	0310	0636	1.7E	Sa	0416	0744	1.7E
	1010	1245	1.7F		1116	1409	1.6F
	1601	1920	1.7E		1714	2030	1.7E
	2302						
6		0109	1.2F	21	0011	0253	1.0F
Sa	0404	0732	1.8E	Su	0515	0837	1.7E
	1058	1338	1.8F		1208	1518	1.6F
	1700	2019	1.8E		1810	2121	1.8E
7	0001	0206	1.2F	22	0107	0356	1.1F
Su	0503	0827	1.8E	M	0611	0925	1.6E
	1150	1436	1.9F		1300	1612	1.7F
	1758	2111	2.0E		1900	2212	1.8E
8	0059	0309	1.3F	23	0200	0449	1.1F
M	0602	0920	1.9E	Tu	0702	1013	1.6E
	1245	1537	2.0F		1350	1659	1.7F
	1854	2206	2.1E		1944	2257	1.9E
9	0156	0411	1.4F	24	0248	0530	1.2F
Tu	0659	1013	2.0E	W	0749	1101	1.7E
	1342	1634	2.2F		1437	1736	1.8F
	1947	2301	2.3E		2026	2343	1.9E
10	0249	0507	1.6F	25	0331	0610	1.3F
W	0754	1109	2.1E	Th	0834	1149	1.7E
	1438	1727	2.4F		1521	1809	1.8F
	2039	2356	2.4E		2107		
11	0339	0559	1.7F	26		0028	2.0E
Th	0849	1206	2.2E	F	0411	0637	1.4F
	1532	1817	2.4F		0917	1235	1.8E
	2131				1603	1837	1.8F
					2146		
12		0050	2.5E	27		0109	2.1E
F	0427	0648	1.9F	Sa	0448	0705	1.5F
	0944	1303	2.3E		1000	1319	1.8E
	1625	1906	2.4F		1643	1914	1.8F
	2222				2226		
13		0140	2.6E	28		0147	2.1E
Sa	0514	0739	1.9F	Su	0525	0740	1.5F
	1040	1357	2.4E		1043	1359	1.9E
	1718	1959	2.3F		1722	1951	1.8F
	2313				2305		
14		0229	2.6E	29		0224	2.1E
Su	0602	0831	2.0F	M	0600	0819	1.6F
	1135	1448	2.4E		1126	1440	1.9E
	1813	2052	2.1F		1804	2036	1.7F
					2345		
15	0002	0316	2.5E	30		0300	2.1E
M	0652	0929	1.9F	Tu	0636	0904	1.6F
	1230	1539	2.3E		1210	1517	1.9E
	1911	2151	1.9F		1848	2121	1.6F
				31	0025	0336	2.0E
				W	0713	0949	1.6F
					1254	1558	1.8E
					1939	2209	1.5F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0105	0411	1.9E	16	0156	0513	1.8E
Th	0754	1036	1.7F	F	0856	1135	1.7F
	1342	1647	1.8E		1440	1757	1.7E
	2036	2258	1.4F		2145		
2	0149	0500	1.8E	17		0000	1.2F
F	0841	1125	1.7F	Sa	0246	0610	1.6E
	1433	1744	1.7E		0950	1226	1.6F
	2136	2349	1.3F		1537	1900	1.6E
					2244		
3	0237	0554	1.7E	18		0056	1.0F
Sa	0932	1217	1.8F	Su	0341	0710	1.5E
	1530	1850	1.7E		1045	1324	1.5F
	2237				1636	2001	1.6E
					2342		
4		0042	1.2F	19		0210	1.0F
Su	0333	0659	1.7E	M	0442	0809	1.5E
	1028	1310	1.8F		1139	1436	1.5F
	1632	1953	1.8E		1734	2053	1.7E
	2337						
5		0139	1.2F	20	0037	0325	1.0F
M	0436	0802	1.8E	Tu	0542	0900	1.5E
	1127	1409	1.8F		1233	1541	1.5F
	1735	2052	2.0E		1827	2141	1.8E
6	0037	0243	1.2F	21	0128	0419	1.1F
Tu	0541	0902	1.9E	W	0637	0949	1.6E
	1227	1514	2.0F		1324	1634	1.6F
	1834	2147	2.1E		1914	2227	1.8E
7	0133	0354	1.4F	22	0215	0506	1.3F
W	0642	0957	2.1E	Th	0726	1035	1.7E
	1328	1619	2.1F		1413	1711	1.7F
	1929	2242	2.3E		1957	2310	1.9E
8	0227	0455	1.6F	23	0258	0541	1.4F
Th	0739	1054	2.2E	F	0810	1123	1.8E
	1426	1716	2.3F		1458	1743	1.8F
	2021	2337	2.4E		2037	2355	2.0E
9	0316	0546	1.8F	24	0337	0608	1.5F
F	0834	1151	2.3E	Sa	0852	1208	1.9E
	1521	1805	2.4F		1541	1814	1.8F
	2111				2117		
10		0028	2.5E	25		0036	2.1E
Sa	0403	0633	2.0F	Su	0413	0634	1.6F
	0928	1246	2.4E		0933	1251	2.0E
	1613	1852	2.3F		1621	1847	1.8F
	2200				2155		
11		0118	2.5E	26		0116	2.1E
Su	0448	0720	2.1F	M	0448	0709	1.7F
	1021	1339	2.5E		1015	1334	2.0E
	1704	1940	2.2F		1701	1925	1.8F
	2249				2235		
12		0205	2.5E	27		0153	2.1E
M	0534	0808	2.1F	Tu	0521	0746	1.8F
	1114	1428	2.4E		1057	1413	2.1E
	1755	2028	2.0F		1741	2006	1.7F
	2336				2314		
13		0250	2.4E	28		0231	2.1E
Tu	0620	0859	2.0F	W	0554	0831	1.8F
	1205	1516	2.3E		1141	1454	2.1E
	1849	2120	1.8F		1825	2053	1.6F
					2354		
14	0022	0336	2.3E	29		0306	2.0E
W	0709	0951	1.9F	Th	0630	0916	1.8F
	1256	1604	2.1E		1226	1535	2.0E
	1946	2216	1.6F		1915	2142	1.5F
15	0108	0422	2.1E	30	0037	0343	1.9E
Th	0801	1044	1.8F	F	0712	1004	1.8F
	1347	1658	1.9E		1314	1620	1.9E
	2045	2309	1.4F		2013	2233	1.4F
				31	0122	0430	1.8E
				Sa	0804	1059	1.8F
					1407	1718	1.8E
					2115	2326	1.3F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0213	0525	1.7E
	0905	1152	1.8F
	1505	1825	1.8E
	2216		
2 M		0022	1.2F
	0313	0638	1.7E
	1009	1247	1.8F
	1608	1932	1.8E
	2316		
3 Tu		0121	1.2F
	0419	0745	1.8E
	1113	1349	1.8F
	1713	2033	2.0E
4 W	0014	0228	1.3F
	0527	0849	1.9E
	1216	1458	1.9F
	1814	2128	2.1E
5 Th	0110	0341	1.5F
	0630	0944	2.1E
	1317	1610	2.0F
	1910	2221	2.2E
6 F	0202	0442	1.8F
	0727	1040	2.2E
	1415	1707	2.1F
	2001	2314	2.3E
7 Sa	0251	0533	2.0F
	0820	1135	2.4E
	1509	1753	2.2F
	2049		
8 Su		0005	2.4E
	0337	0618	2.1F
	0911	1229	2.4E
	1559	1838	2.2F
	2136		
9 M		0052	2.4E
	0421	0658	2.2F
	1001	1320	2.5E
	1648	1919	2.1F
	2222		
10 Tu		0138	2.4E
	0504	0742	2.2F
	1050	1406	2.4E
	1737	2005	1.9F
	2307		
11 W		0221	2.3E
	0548	0825	2.1F
	1139	1452	2.3E
	1827	2051	1.7F
	2352		
12 Th		0305	2.1E
	0635	0914	1.9F
	1227	1535	2.1E
	1921	2139	1.4F
13 F	0037	0348	1.9E
	0725	1005	1.8F
	1315	1624	1.9E
	2018	2233	1.3F
14 Sa	0124	0437	1.7E
	0819	1056	1.6F
	1405	1718	1.7E
	2116	2329	1.1F
15 Su	0214	0531	1.5E
	0916	1147	1.5F
	1457	1821	1.6E
	2214		
16 M		0023	1.0F
	0309	0635	1.4E
	1013	1241	1.4F
	1554	1923	1.6E
	2309		
17 Tu		0121	1.0F
	0410	0738	1.4E
	1109	1342	1.3F
	1653	2020	1.6E
18 W	0001	0239	1.0F
	0513	0832	1.5E
	1204	1452	1.4F
	1748	2107	1.7E
19 Th	0051	0344	1.2F
	0609	0921	1.6E
	1256	1554	1.5F
	1838	2152	1.8E
20 F	0137	0429	1.3F
	0658	1007	1.7E
	1346	1639	1.6F
	1922	2235	1.9E
21 Sa	0219	0504	1.5F
	0742	1055	1.9E
	1433	1714	1.7F
	2004	2317	2.0E
22 Su	0258	0533	1.7F
	0824	1139	2.0E
	1517	1746	1.8F
	2043	2359	2.0E
23 M	0335	0603	1.8F
	0905	1222	2.1E
	1558	1821	1.8F
	2123		
24 Tu		0040	2.1E
	0409	0638	2.0F
	0946	1307	2.2E
	1639	1900	1.8F
	2203		
25 W		0119	2.1E
	0442	0718	2.0F
	1029	1349	2.2E
	1721	1941	1.7F
	2244		
26 Th		0200	2.1E
	0517	0801	2.0F
	1114	1430	2.2E
	1806	2026	1.6F
	2327		
27 F		0239	2.0E
	0555	0848	2.0F
	1202	1513	2.2E
	1856	2117	1.5F
28 Sa	0013	0320	2.0E
	0642	0939	1.9F
	1252	1602	2.1E
	1954	2211	1.4F
29 Su	0103	0409	1.8E
	0739	1034	1.9F
	1346	1659	1.9E
	2055	2306	1.3F
30 M	0158	0509	1.7E
	0847	1131	1.8F
	1443	1803	1.9E
	2156		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu		0005	1.3F
	0300	0622	1.7E
	0956	1229	1.8F
	1546	1911	1.9E
	2255		
2 W		0106	1.3F
	0407	0731	1.8E
	1102	1334	1.7F
	1651	2014	2.0E
	2351		
3 Th		0213	1.4F
	0515	0835	1.9E
	1205	1446	1.7F
	1753	2108	2.1E
4 F	0044	0328	1.6F
	0618	0931	2.1E
	1306	1600	1.8F
	1848	2200	2.2E
5 Sa	0136	0429	1.9F
	0714	1026	2.3E
	1402	1655	1.9F
	1938	2248	2.3E
6 Su	0224	0517	2.1F
	0805	1117	2.4E
	1455	1740	2.0F
	2025	2337	2.3E
7 M	0310	0559	2.2F
	0853	1210	2.4E
	1545	1821	1.9F
	2110		
8 Tu		0026	2.3E
	0353	0637	2.2F
	0940	1259	2.4E
	1632	1900	1.8F
	2154		
9 W		0112	2.2E
	0436	0716	2.2F
	1026	1345	2.3E
	1719	1939	1.7F
	2238		
10 Th		0155	2.1E
	0518	0756	2.0F
	1112	1428	2.2E
	1806	2022	1.5F
	2322		
11 F		0238	2.0E
	0602	0839	1.9F
	1157	1512	2.1E
	1856	2110	1.3F
12 Sa	0008	0320	1.8E
	0649	0928	1.7F
	1243	1555	1.9E
	1950	2202	1.2F
13 Su	0055	0405	1.6E
	0742	1020	1.6F
	1329	1644	1.7E
	2045	2255	1.1F
14 M	0145	0456	1.4E
	0840	1111	1.4F
	1418	1741	1.6E
	2140	2348	1.1F
15 Tu	0239	0557	1.3E
	0939	1202	1.3F
	1511	1841	1.6E
	2233		
16 W		0042	1.1F
	0338	0701	1.3E
	1037	1255	1.3F
	1607	1937	1.6E
	2322		
17 Th		0139	1.1F
	0438	0801	1.4E
	1132	1354	1.3F
	1703	2027	1.7E
18 F	0009	0239	1.2F
	0535	0850	1.6E
	1225	1454	1.3F
	1756	2113	1.8E
19 Sa	0054	0334	1.4F
	0626	0938	1.8E
	1316	1554	1.4F
	1843	2156	1.9E
20 Su	0136	0419	1.6F
	0712	1022	1.9E
	1405	1638	1.5F
	1927	2239	2.0E
21 M	0216	0454	1.8F
	0755	1108	2.1E
	1451	1717	1.6F
	2008	2321	2.0E
22 Tu	0254	0530	2.0F
	0837	1154	2.2E
	1535	1755	1.7F
	2050		
23 W		0007	2.0E
	0331	0610	2.1F
	0920	1240	2.3E
	1619	1835	1.7F
	2132		
24 Th		0050	2.1E
	0408	0651	2.2F
	1005	1326	2.3E
	1702	1917	1.7F
	2216		
25 F		0133	2.1E
	0447	0736	2.2F
	1052	1411	2.4E
	1749	2004	1.6F
	2304		
26 Sa		0217	2.1E
	0531	0825	2.2F
	1142	1457	2.3E
	1839	2057	1.5F
	2354		
27 Su		0304	2.0E
	0622	0916	2.1F
	1233	1545	2.2E
	1935	2152	1.5F
28 M	0049	0355	1.9E
	0724	1016	1.9F
	1327	1640	2.1E
	2035	2251	1.4F
29 Tu	0146	0458	1.8E
	0834	1115	1.8F
	1424	1744	2.0E
	2134	2351	1.5F
30 W	0248	0606	1.8E
	0943	1214	1.7F
	1524	1848	2.0E
	2231		
31 Th		0052	1.5F
	0355	0717	1.8E
	1049	1318	1.7F
	1626	1951	2.0E
	2325		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THE NARROWS, NEW YORK HARBOR, NEW YORK, 1991

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0200	1.6F
F	0501	0820	2.0E
	1151	1430	1.6F
	1727	2045	2.1E
2	0017	0312	1.8F
Sa	0603	0916	2.1E
	1251	1543	1.6F
	1823	2134	2.1E
3	0108	0413	2.0F
Su	0658	1008	2.2E
	1348	1639	1.7F
	1913	2223	2.1E
4	0157	0500	2.1F
M	0748	1059	2.3E
	1441	1728	1.7F
	2000	2311	2.1E
5	0243	0543	2.2F
Tu	0835	1149	2.3E
	1530	1809	1.7F
	2044	2359	2.1E
6	0328	0616	2.2F
W	0919	1238	2.3E
	1616	1844	1.6F
	2127		
7		0045	2.0E
Th	0410	0654	2.1F
	1003	1324	2.2E
	1701	1920	1.5F
	2211		
8		0129	1.9E
F	0452	0730	2.0F
	1046	1405	2.2E
	1746	1959	1.4F
	2256		
9		0212	1.8E
Sa	0534	0809	1.8F
	1129	1448	2.1E
	1833	2044	1.3F
	2342		
10		0253	1.7E
Su	0618	0854	1.7F
	1213	1529	2.0E
	1921	2133	1.2F
11	0029	0336	1.6E
M	0708	0945	1.6F
	1257	1612	1.8E
	2012	2225	1.1F
12	0118	0427	1.5E
Tu	0803	1036	1.4F
	1342	1702	1.7E
	2103	2313	1.2F
13	0209	0519	1.4E
W	0902	1125	1.4F
	1430	1756	1.6E
	2152		
14		0003	1.2F
Th	0303	0621	1.4E
	1000	1216	1.3F
	1521	1852	1.6E
	2239		
15		0050	1.3F
F	0400	0722	1.4E
	1056	1308	1.3F
	1615	1945	1.7E
	2324		
16		0141	1.4F
Sa	0456	0814	1.6E
	1151	1403	1.2F
	1709	2033	1.8E
17	0008	0237	1.5F
Su	0550	0905	1.8E
	1244	1458	1.3F
	1800	2117	1.8E
18	0051	0328	1.7F
M	0639	0951	1.9E
	1336	1557	1.4F
	1848	2200	1.9E
19	0133	0415	1.9F
Tu	0725	1039	2.1E
	1426	1645	1.5F
	1934	2245	2.0E
20	0215	0501	2.1F
W	0810	1125	2.2E
	1513	1728	1.6F
	2019	2330	2.0E
21	0258	0543	2.3F
Th	0856	1215	2.3E
	1559	1812	1.6F
	2105		
22		0022	2.1E
F	0341	0628	2.3F
	0944	1305	2.4E
	1644	1858	1.7F
	2153		
23		0111	2.1E
Sa	0426	0714	2.4F
	1033	1353	2.5E
	1731	1947	1.7F
	2245		
24		0202	2.2E
Su	0515	0805	2.3F
	1124	1442	2.5E
	1821	2038	1.6F
	2339		
25		0251	2.1E
M	0610	0900	2.2F
	1216	1529	2.4E
	1914	2136	1.6F
26	0035	0344	2.1E
Tu	0712	0958	2.0F
	1308	1622	2.3E
	2011	2235	1.6F
27	0133	0444	2.0E
W	0819	1056	1.9F
	1402	1719	2.1E
	2107	2335	1.7F
28	0234	0547	1.9E
Th	0926	1156	1.7F
	1458	1822	2.0E
	2203		
29		0033	1.7F
F	0337	0657	1.9E
	1031	1258	1.6F
	1557	1923	2.0E
	2256		
30		0138	1.8F
Sa	0442	0801	1.9E
	1133	1408	1.5F
	1657	2020	2.0E
	2349		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0245	1.8F
Su	0544	0858	2.0E
	1233	1521	1.4F
	1754	2109	2.0E
2	0040	0350	1.9F
M	0640	0951	2.1E
	1331	1622	1.4F
	1846	2159	2.0E
3	0131	0442	2.0F
Tu	0730	1040	2.1E
	1425	1711	1.5F
	1934	2248	1.9E
4	0219	0527	2.1F
W	0816	1129	2.1E
	1514	1756	1.4F
	2020	2333	1.9E
5	0305	0602	2.1F
Th	0859	1219	2.1E
	1600	1833	1.4F
	2104		
6		0022	1.8E
F	0348	0634	2.0F
	0941	1302	2.1E
	1643	1906	1.4F
	2148		
7		0106	1.8E
Sa	0430	0707	1.9F
	1022	1343	2.1E
	1725	1940	1.3F
	2232		
8		0149	1.8E
Su	0511	0746	1.8F
	1104	1424	2.1E
	1808	2018	1.3F
	2318		
9		0232	1.7E
M	0553	0829	1.7F
	1145	1504	2.0E
	1851	2103	1.3F
10	0004	0312	1.6E
Tu	0638	0914	1.6F
	1226	1542	1.9E
	1936	2148	1.3F
11	0050	0355	1.6E
W	0728	1001	1.5F
	1308	1624	1.9E
	2022	2237	1.3F
12	0137	0444	1.5E
Th	0824	1049	1.4F
	1352	1709	1.8E
	2107	2324	1.3F
13	0226	0535	1.5E
F	0922	1140	1.3F
	1438	1803	1.7E
	2152		
14		0011	1.4F
Sa	0319	0638	1.5E
	1019	1229	1.2F
	1527	1856	1.7E
	2236		
15		0059	1.5F
Su	0415	0735	1.6E
	1115	1320	1.2F
	1621	1949	1.7E
	2321		
16		0150	1.6F
M	0511	0830	1.7E
	1211	1417	1.2F
	1716	2038	1.8E
17	0006	0245	1.7F
Tu	0605	0919	1.9E
	1306	1515	1.2F
	1810	2125	1.9E
18	0053	0340	1.9F
W	0657	1009	2.1E
	1400	1612	1.3F
	1901	2213	1.9E
19	0142	0434	2.1F
Th	0746	1058	2.2E
	1450	1703	1.5F
	1952	2304	2.0E
20	0232	0523	2.3F
F	0835	1152	2.3E
	1538	1752	1.6F
	2042	2359	2.1E
21	0322	0609	2.4F
Sa	0925	1245	2.5E
	1624	1840	1.7F
	2135		
22		0054	2.2E
Su	0412	0657	2.4F
	1015	1334	2.5E
	1711	1929	1.8F
	2229		
23		0146	2.3E
M	0504	0748	2.4F
	1106	1423	2.6E
	1759	2021	1.8F
	2324		
24		0238	2.3E
Tu	0558	0841	2.2F
	1157	1512	2.5E
	1849	2117	1.9F
25	0020	0330	2.2E
W	0657	0939	2.1F
	1247	1601	2.4E
	1942	2216	1.9F
26	0116	0424	2.1E
Th	0801	1036	1.9F
	1338	1653	2.2E
	2037	2312	1.9F
27	0214	0525	2.0E
F	0905	1134	1.7F
	1431	1751	2.1E
	2132		
28		0010	1.8F
Sa	0314	0631	1.9E
	1009	1233	1.5F
	1526	1852	2.0E
	2227		
29		0108	1.8F
Su	0416	0736	1.9E
	1111	1339	1.3F
	1624	1950	1.9E
	2320		
30		0216	1.8F
M	0519	0837	1.9E
	1212	1456	1.2F
	1723	2045	1.8E
31	0013	0324	1.8F
Tu	0617	0931	1.9E
	1311	1603	1.2F
	1819	2134	1.8E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0056	1.5E
Tu	0333	0640	2.0F
	1004	1342	1.9E
	1644	1925	1.6F
	2230		
2		0151	1.6E
W	0430	0735	2.0F
	1058	1433	1.9E
	1736	2017	1.6F
	2324		
3		0243	1.5E
Th	0525	0828	1.9F
	1150	1523	1.8E
	1827	2107	1.6F
4	0017	0335	1.5E
F	0620	0920	1.7F
	1240	1613	1.7E
	1915	2159	1.5F
5	0109	0429	1.3E
Sa	0716	1013	1.5F
	1328	1702	1.5E
	2001	2251	1.4F
6	0201	0524	1.2E
Su	0813	1109	1.3F
	1416	1750	1.3E
	2047	2342	1.3F
7	0255	0617	1.1E
M	0915	1204	1.1F
	1505	1837	1.1E
	2131		
8		0032	1.3F
Tu	0350	0712	1.1E
	1020	1259	1.0F
	1557	1924	1.0E
	2215		
9		0122	1.2F
W	0443	0807	1.0E
	1122	1357	0.9F
	1649	2013	0.9E
	2259		
10		0214	1.2F
Th	0534	0902	1.1E
	1220	1455	0.8F
	1740	2103	0.9E
	2342		
11		0305	1.2F
F	0624	0953	1.1E
	1314	1548	0.9F
	1833	2152	0.9E
12	0029	0354	1.3F
Sa	0713	1040	1.2E
	1403	1637	0.9F
	1925	2240	0.9E
13	0116	0439	1.3F
Su	0800	1126	1.3E
	1446	1722	1.0F
	2015	2326	1.0E
14	0203	0524	1.4F
M	0845	1210	1.3E
	1525	1806	1.0F
	2101		
15		0013	1.1E
Tu	0248	0607	1.4F
	0926	1253	1.4E
	1601	1847	1.1F
	2145		
16		0058	1.1E
W	0330	0649	1.5F
	1006	1333	1.5E
	1635	1925	1.1F
	2226		
17		0140	1.2E
Th	0412	0728	1.5F
	1043	1411	1.5E
	1708	2000	1.2F
	2304		
18		0220	1.2E
F	0455	0806	1.5F
	1119	1447	1.5E
	1741	2035	1.3F
	2343		
19		0300	1.2E
Sa	0539	0844	1.4F
	1156	1523	1.4E
	1816	2111	1.3F
20	0022	0342	1.2E
Su	0626	0926	1.4F
	1233	1600	1.4E
	1852	2152	1.4F
21	0105	0429	1.2E
M	0717	1014	1.3F
	1315	1641	1.3E
	1932	2238	1.5F
22	0151	0522	1.2E
Tu	0812	1108	1.2F
	1402	1729	1.2E
	2019	2329	1.5F
23	0244	0620	1.2E
W	0915	1206	1.2F
	1458	1824	1.2E
	2111		
24		0024	1.6F
Th	0344	0724	1.3E
	1022	1307	1.2F
	1602	1928	1.1E
	2210		
25		0124	1.6F
F	0447	0832	1.4E
	1131	1412	1.2F
	1709	2039	1.2E
	2313		
26		0228	1.7F
Sa	0551	0938	1.5E
	1238	1518	1.3F
	1816	2145	1.2E
27	0019	0331	1.7F
Su	0657	1040	1.6E
	1342	1619	1.4F
	1922	2247	1.4E
28	0123	0432	1.8F
M	0800	1137	1.8E
	1441	1717	1.5F
	2024	2346	1.5E
29	0226	0530	1.9F
Tu	0858	1233	1.9E
	1535	1814	1.6F
	2121		
30		0042	1.6E
W	0323	0627	2.0F
	0951	1324	1.9E
	1626	1907	1.7F
	2214		
31		0134	1.6E
Th	0418	0720	1.9F
	1041	1412	1.9E
	1713	1956	1.7F
	2304		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0224	1.6E
F	0510	0810	1.8F
	1128	1457	1.8E
	1758	2043	1.6F
	2352		
2		0311	1.5E
Sa	0601	0858	1.7F
	1212	1540	1.6E
	1840	2128	1.6F
3	0039	0400	1.4E
Su	0652	0946	1.5F
	1254	1623	1.4E
	1918	2214	1.5F
4	0124	0448	1.3E
M	0743	1036	1.2F
	1336	1705	1.2E
	1955	2300	1.3F
5	0210	0538	1.1E
Tu	0838	1127	1.0F
	1420	1748	1.0E
	2032	2347	1.2F
6	0300	0628	1.0E
W	0937	1220	0.9F
	1508	1832	0.9E
	2113		
7		0036	1.2F
Th	0353	0721	1.0E
	1040	1315	0.8F
	1601	1922	0.8E
	2200		
8		0127	1.1F
F	0448	0818	1.0E
	1140	1414	0.7F
	1657	2018	0.8E
	2252		
9		0223	1.1F
Sa	0543	0915	1.0E
	1236	1513	0.7F
	1753	2115	0.8E
	2346		
10		0318	1.2F
Su	0638	1006	1.1E
	1327	1604	0.8F
	1850	2208	0.9E
11	0040	0408	1.3F
M	0730	1054	1.2E
	1411	1650	0.9F
	1944	2258	1.0E
12	0134	0455	1.3F
Tu	0817	1139	1.3E
	1450	1733	1.0F
	2033	2346	1.1E
13	0223	0539	1.4F
W	0900	1223	1.4E
	1526	1814	1.1F
	2117		
14		0034	1.2E
Th	0310	0623	1.5F
	0939	1304	1.5E
	1559	1852	1.3F
	2158		
15		0117	1.3E
F	0355	0704	1.5F
	1017	1343	1.5E
	1632	1929	1.4F
	2237		
16		0159	1.4E
Sa	0439	0744	1.5F
	1054	1419	1.5E
	1707	2005	1.5F
	2316		
17		0241	1.4E
Su	0525	0824	1.5F
	1131	1456	1.5E
	1742	2043	1.6F
	2357		
18		0323	1.4E
M	0612	0907	1.4F
	1211	1533	1.4E
	1821	2124	1.6F
19	0040	0410	1.4E
Tu	0704	0956	1.4F
	1254	1617	1.3E
	1905	2212	1.6F
20	0127	0504	1.4E
W	0800	1050	1.3F
	1344	1709	1.2E
	1954	2305	1.6F
21	0222	0605	1.3E
Th	0901	1149	1.2F
	1441	1810	1.1E
	2050		
22		0004	1.6F
F	0325	0710	1.3E
	1010	1251	1.1F
	1548	1918	1.1E
	2156		
23		0107	1.5F
Sa	0433	0820	1.3E
	1119	1357	1.2F
	1658	2029	1.1E
	2303		
24		0214	1.6F
Su	0541	0927	1.4E
	1226	1504	1.2F
	1807	2136	1.2E
25	0012	0320	1.6F
M	0648	1027	1.6E
	1328	1606	1.4F
	1912	2236	1.4E
26	0118	0421	1.7F
Tu	0750	1122	1.7E
	1424	1703	1.5F
	2013	2332	1.5E
27	0218	0518	1.8F
W	0845	1215	1.8E
	1515	1756	1.6F
	2107		
28		0026	1.6E
Th	0313	0612	1.8F
	0934	1302	1.8E
	1601	1846	1.7F
	2155		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0116	1.6E
F	0405	0702	1.8F
	1019	1346	1.8E
	1644	1932	1.7F
	2240		
2		0202	1.6E
Sa	0454	0749	1.7F
	1101	1427	1.6E
	1723	2014	1.7F
	2323		
3		0245	1.5E
Su	0541	0833	1.6F
	1141	1505	1.5E
	1759	2054	1.6F
4	0004	0327	1.4E
M	0627	0917	1.4F
	1220	1541	1.3E
	1832	2135	1.5F
5	0045	0410	1.3E
Tu	0712	1002	1.2F
	1259	1619	1.1E
	1904	2217	1.3F
6	0127	0455	1.1E
W	0759	1050	1.0F
	1340	1657	0.9E
	1939	2302	1.2F
7	0212	0543	1.0E
Th	0850	1141	0.8F
	1425	1742	0.8E
	2020	2350	1.1F
8	0304	0635	0.9E
F	0948	1233	0.7F
	1517	1832	0.7E
	2109		
9		0042	1.1F
Sa	0402	0732	0.9E
	1049	1330	0.7F
	1616	1933	0.7E
	2207		
10		0139	1.0F
Su	0501	0832	0.9E
	1145	1429	0.7F
	1716	2036	0.8E
	2307		
11		0238	1.1F
M	0558	0928	1.0E
	1237	1525	0.8F
	1814	2135	0.9E
12	0007	0333	1.2F
Tu	0652	1018	1.2E
	1323	1612	0.9F
	1909	2228	1.0E
13	0104	0422	1.3F
W	0742	1104	1.3E
	1404	1654	1.1F
	1959	2317	1.2E
14	0158	0508	1.4F
Th	0827	1147	1.4E
	1441	1734	1.3F
	2044		
15		0006	1.3E
F	0248	0553	1.5F
	0908	1230	1.5E
	1517	1815	1.4F
	2126		
16		0052	1.5E
Sa	0337	0637	1.5F
	0948	1311	1.5E
	1553	1855	1.6F
	2207		
17		0136	1.6E
Su	0423	0721	1.6F
	1027	1350	1.5E
	1631	1935	1.7F
	2248		
18		0220	1.6E
M	0511	0805	1.5F
	1108	1430	1.5E
	1711	2016	1.8F
	2332		
19		0305	1.6E
Tu	0601	0850	1.5F
	1152	1512	1.4E
	1756	2101	1.8F
20	0018	0355	1.5E
W	0653	0940	1.4F
	1239	1601	1.3E
	1843	2151	1.7F
21	0109	0452	1.5E
Th	0749	1035	1.3F
	1332	1659	1.2E
	1938	2248	1.6F
22	0207	0554	1.4E
F	0851	1136	1.2F
	1433	1804	1.1E
	2039	2350	1.5F
23	0313	0700	1.3E
Sa	1000	1239	1.2F
	1542	1912	1.1E
	2148		
24		0055	1.5F
Su	0424	0808	1.3E
	1108	1345	1.2F
	1653	2021	1.2E
	2300		
25		0204	1.5F
M	0534	0912	1.4E
	1211	1452	1.3F
	1801	2126	1.3E
26	0008	0311	1.5F
Tu	0638	1010	1.5E
	1310	1552	1.4F
	1904	2224	1.4E
27	0112	0410	1.6F
W	0736	1102	1.6E
	1402	1645	1.5F
	2000	2317	1.5E
28	0210	0504	1.7F
Th	0827	1150	1.7E
	1449	1734	1.6F
	2049		
29		0007	1.6E
F	0302	0554	1.7F
	0912	1235	1.6E
	1531	1820	1.7F
	2133		
30		0054	1.6E
Sa	0351	0642	1.6F
	0953	1316	1.6E
	1609	1903	1.7F
	2213		
31		0138	1.6E
Su	0437	0727	1.6F
	1032	1354	1.5E
	1644	1943	1.7F
	2252		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0218	1.5E
M	0520	0809	1.4F
	1111	1430	1.3E
	1717	2021	1.6F
	2330		
2		0256	1.4E
Tu	0602	0850	1.3F
	1149	1503	1.2E
	1748	2059	1.5F
3	0009	0335	1.3E
W	0643	0931	1.1F
	1227	1536	1.0E
	1820	2138	1.3F
4	0048	0415	1.2E
Th	0724	1015	1.0F
	1306	1611	0.9E
	1857	2220	1.2F
5	0132	0501	1.1E
F	0809	1103	0.8F
	1350	1656	0.8E
	1938	2308	1.1F
6	0221	0552	1.0E
Sa	0859	1154	0.7F
	1440	1751	0.8E
	2029		
7		0000	1.0F
Su	0317	0647	0.9E
	0955	1246	0.7F
	1538	1853	0.7E
	2127		
8		0056	1.0F
M	0416	0746	0.9E
	1050	1342	0.7F
	1639	1958	0.8E
	2230		
9		0154	1.1F
Tu	0513	0843	1.0E
	1140	1437	0.9F
	1736	2100	0.9E
	2333		
10		0252	1.1F
W	0607	0936	1.1E
	1226	1527	1.0F
	1630	2156	1.1E
11	0033	0345	1.2F
Th	0659	1023	1.2E
	1309	1611	1.2F
	1921	2246	1.3E
12	0131	0434	1.4F
F	0747	1108	1.3E
	1352	1654	1.4F
	2008	2336	1.5E
13	0226	0522	1.4F
Sa	0833	1153	1.4E
	1433	1737	1.6F
	2053		
14		0025	1.6E
Su	0318	0610	1.5F
	0917	1238	1.5E
	1516	1822	1.8F
	2138		
15		0113	1.7E
M	0408	0658	1.6F
	1002	1323	1.5E
	1559	1907	1.9F
	2223		
16		0201	1.8E
Tu	0458	0746	1.6F
	1048	1408	1.5E
	1646	1954	1.9F
	2310		
17		0249	1.8E
W	0549	0835	1.5F
	1137	1457	1.4E
	1735	2043	1.9F
18	0001	0342	1.7E
Th	0642	0926	1.4F
	1229	1550	1.3E
	1829	2136	1.8F
19	0056	0441	1.6E
F	0740	1023	1.3F
	1325	1652	1.2E
	1928	2235	1.6F
20	0156	0544	1.4E
Sa	0841	1125	1.3F
	1427	1757	1.2E
	2031	2339	1.5F
21	0303	0647	1.4E
Su	0947	1228	1.2F
	1537	1903	1.2E
	2143		
22		0044	1.4F
M	0413	0751	1.4E
	1051	1332	1.2F
	1647	2009	1.2E
	2255		
23		0152	1.4F
Tu	0520	0852	1.4E
	1151	1436	1.3F
	1752	2111	1.3E
24	0001	0257	1.4F
W	0620	0947	1.5E
	1244	1533	1.4F
	1850	2208	1.4E
25	0103	0355	1.4F
Th	0714	1036	1.5E
	1333	1623	1.5F
	1941	2258	1.5E
26	0159	0446	1.5F
F	0802	1121	1.5E
	1417	1708	1.6F
	2027	2346	1.5E
27	0250	0534	1.5F
Sa	0846	1204	1.4E
	1457	1752	1.6F
	2108		
28		0031	1.6E
Su	0336	0620	1.4F
	0926	1244	1.4E
	1532	1833	1.6F
	2146		
29		0113	1.5E
M	0419	0704	1.4F
	1004	1322	1.3E
	1606	1913	1.6F
	2223		
30		0152	1.5E
Tu	0500	0746	1.3F
	1042	1358	1.2E
	1638	1950	1.5F
	2300		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

DELAWARE BAY ENTRANCE, 1991

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0229	1.4E
W	0539	0825	1.2F
	1121	1432	1.1E
	1710	2028	1.4F
	2338		
2		0306	1.3E
Th	0617	0904	1.1F
	1159	1504	1.0E
	1746	2105	1.3F
3	0018	0344	1.2E
F	0655	0944	1.0F
	1239	1540	0.9E
	1823	2145	1.2F
4	0059	0427	1.1E
Sa	0734	1029	0.9F
	1321	1624	0.8E
	1907	2231	1.1F
5	0144	0516	1.1E
Su	0818	1116	0.8F
	1409	1719	0.8E
	1957	2321	1.1F
6	0235	0607	1.0E
M	0906	1205	0.8F
	1503	1818	0.8E
	2053		
7		0015	1.1F
Tu	0329	0659	1.0E
	0955	1255	0.9F
	1601	1920	0.9E
	2157		
8		0110	1.1F
W	0425	0754	1.1E
	1044	1347	1.0F
	1657	2023	1.0E
	2301		
9		0209	1.1F
Th	0519	0848	1.1E
	1131	1438	1.2F
	1750	2121	1.2E
10	0004	0307	1.2F
F	0612	0939	1.2E
	1218	1528	1.4F
	1842	2216	1.4E
11	0106	0400	1.3F
Sa	0705	1028	1.3E
	1305	1615	1.6F
	1933	2307	1.6E
12	0204	0452	1.4F
Su	0758	1117	1.4E
	1354	1703	1.8F
	2022		
13		0000	1.7E
M	0259	0544	1.5F
	0849	1208	1.4E
	1443	1753	1.9F
	2112		
14		0052	1.8E
Tu	0351	0636	1.6F
	0939	1300	1.5E
	1534	1844	2.0F
	2202		
15		0144	1.9E
W	0444	0728	1.6F
	1030	1351	1.5E
	1627	1935	2.0F
	2254		
16		0236	1.8E
Th	0538	0820	1.6F
	1123	1444	1.5E
	1720	2028	1.9F
	2349		
17		0330	1.8E
F	0631	0913	1.5F
	1219	1540	1.4E
	1818	2123	1.8F
18	0046	0428	1.7E
Sa	0728	1010	1.4F
	1317	1642	1.3E
	1919	2223	1.6F
19	0145	0528	1.5E
Su	0827	1110	1.4F
	1419	1745	1.3E
	2023	2326	1.5F
20	0248	0627	1.5E
M	0927	1212	1.3F
	1526	1847	1.2E
	2133		
21		0030	1.4F
Tu	0353	0725	1.4E
	1027	1312	1.3F
	1633	1950	1.2E
	2244		
22		0133	1.3F
W	0454	0823	1.3E
	1121	1411	1.4F
	1734	2051	1.3E
	2349		
23		0237	1.3F
Th	0551	0916	1.3E
	1211	1506	1.4F
	1828	2146	1.3E
24	0050	0334	1.3F
F	0643	1004	1.3E
	1257	1555	1.5F
	1917	2237	1.4E
25	0145	0425	1.2F
Sa	0732	1049	1.2E
	1340	1640	1.5F
	2001	2323	1.4E
26	0235	0512	1.2F
Su	0816	1131	1.2E
	1419	1722	1.6F
	2041		
27		0007	1.5E
M	0320	0558	1.2F
	0858	1212	1.2E
	1456	1804	1.5F
	2120		
28		0049	1.5E
Tu	0401	0642	1.2F
	0938	1252	1.1E
	1531	1845	1.5F
	2158		
29		0128	1.5E
W	0440	0723	1.2F
	1018	1331	1.1E
	1607	1924	1.5F
	2236		
30		0206	1.4E
Th	0517	0802	1.1F
	1057	1407	1.1E
	1642	2002	1.4F
	2314		
31		0243	1.4E
F	0553	0840	1.1F
	1137	1443	1.0E
	1719	2039	1.4F
	2353		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0320	1.3E
Sa	0628	0918	1.0F
	1217	1520	1.0E
	1759	2118	1.3F
2	0032	0400	1.2E
Su	0704	0957	1.0F
	1257	1604	0.9E
	1842	2200	1.2F
3	0113	0443	1.2E
M	0741	1040	1.0F
	1341	1652	0.9E
	1930	2246	1.1F
4	0156	0527	1.1E
Tu	0822	1125	1.0F
	1429	1748	0.9E
	2026	2338	1.1F
5	0244	0613	1.1E
W	0907	1212	1.1F
	1523	1845	1.0E
	2128		
6		0032	1.1F
Th	0337	0703	1.1E
	0953	1301	1.2F
	1617	1945	1.1E
	2232		
7		0130	1.1F
F	0432	0758	1.1E
	1042	1353	1.4F
	1711	2047	1.2E
	2338		
8		0230	1.1F
Sa	0529	0856	1.2E
	1133	1448	1.5F
	1806	2146	1.4E
9	0041	0329	1.2F
Su	0627	0952	1.2E
	1227	1542	1.7F
	1901	2242	1.6E
10	0142	0426	1.4F
M	0726	1048	1.3E
	1322	1635	1.9F
	1957	2338	1.7E
11	0240	0521	1.5F
Tu	0824	1144	1.4E
	1419	1730	2.0F
	2052		
12		0034	1.9E
W	0336	0617	1.5F
	0920	1241	1.5E
	1516	1826	2.0F
	2147		
13		0129	1.9E
Th	0430	0712	1.6F
	1015	1337	1.5E
	1612	1921	2.0F
	2242		
14		0222	1.9E
F	0523	0805	1.6F
	1110	1432	1.5E
	1710	2015	2.0F
	2338		
15		0315	1.8E
Sa	0618	0858	1.6F
	1207	1527	1.5E
	1808	2110	1.8F
16	0033	0410	1.7E
Su	0710	0953	1.5F
	1303	1626	1.4E
	1908	2208	1.7F
17	0128	0505	1.6E
M	0804	1050	1.5F
	1402	1725	1.3E
	2009	2308	1.5F
18	0224	0600	1.5E
Tu	0858	1148	1.4F
	1504	1824	1.3E
	2116		
19		0008	1.3F
W	0321	0653	1.3E
	0951	1243	1.4F
	1606	1923	1.2E
	2224		
20		0108	1.2F
Th	0419	0746	1.2E
	1043	1339	1.4F
	1704	2023	1.2E
	2329		
21		0209	1.1F
F	0513	0839	1.1E
	1130	1433	1.4F
	1757	2120	1.2E
22	0030	0308	1.0F
Sa	0605	0928	1.1E
	1216	1523	1.4F
	1846	2211	1.3E
23	0126	0400	1.0F
Su	0656	1014	1.0E
	1259	1610	1.4F
	1932	2257	1.3E
24	0216	0448	1.0F
M	0744	1059	1.0E
	1342	1654	1.4F
	2015	2341	1.3E
25	0300	0534	1.1F
Tu	0830	1142	1.0E
	1423	1737	1.5F
	2057		
26		0024	1.4E
W	0341	0619	1.1F
	0913	1225	1.1E
	1503	1820	1.5F
	2137		
27		0105	1.4E
Th	0419	0701	1.1F
	0955	1307	1.1E
	1541	1901	1.5F
	2215		
28		0144	1.4E
F	0454	0740	1.1F
	1035	1347	1.1E
	1620	1940	1.5F
	2253		
29		0221	1.4E
Sa	0528	0816	1.1F
	1115	1425	1.1E
	1659	2017	1.4F
	2330		
30		0257	1.4E
Su	0600	0851	1.1F
	1154	1503	1.1E
	1739	2053	1.4F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0007	0333	1.3E	16	0104	0436	1.6E
M	0632	0926	1.1F	Tu	0733	1023	1.6F
	1232	1544	1.0E		1337	1700	1.4E
	1822	2133	1.3F		1950	2243	1.4F
2	0043	0410	1.3E	17	0153	0526	1.4E
Tu	0706	1004	1.2F	W	0820	1116	1.5F
	1312	1628	1.0E		1431	1755	1.3E
	1910	2217	1.2F		2051	2340	1.2F
3	0122	0449	1.2E	18	0243	0615	1.2E
W	0742	1046	1.2F	Th	0907	1208	1.4F
	1356	1718	1.1E		1527	1851	1.2E
	2002	2306	1.2F		2157		
4	0205	0531	1.2E	19		0036	1.1F
Th	0824	1133	1.3F	F	0336	0704	1.1E
	1446	1811	1.1E		0955	1259	1.3F
	2102				1624	1948	1.1E
					2302		
5		0000	1.1F	20		0135	0.9F
F	0256	0618	1.1E	Sa	0430	0755	0.9E
	0910	1222	1.4F		1042	1353	1.3F
	1540	1911	1.2E		1718	2046	1.1E
	2208						
6		0058	1.1F	21	0003	0235	0.9F
Sa	0353	0714	1.1E	Su	0524	0848	0.9E
	1002	1316	1.5F		1129	1447	1.2F
	1637	2016	1.3E		1810	2139	1.1E
	2313						
7		0200	1.1F	22	0100	0332	0.9F
Su	0455	0819	1.1E	M	0617	0939	0.9E
	1059	1415	1.6F		1217	1538	1.3F
	1736	2121	1.4E		1900	2228	1.2E
8	0019	0303	1.2F	23	0151	0422	0.9F
M	0558	0925	1.2E	Tu	0710	1026	0.9E
	1159	1516	1.7F		1306	1626	1.3F
	1837	2222	1.6E		1948	2313	1.2E
9	0123	0404	1.3F	24	0236	0508	1.0F
Tu	0702	1027	1.3E	W	0801	1113	1.0E
	1301	1615	1.9F		1353	1711	1.4F
	1939	2321	1.7E		2033	2357	1.3E
10	0223	0502	1.4F	25	0315	0553	1.0F
W	0805	1127	1.4E	Th	0848	1159	1.1E
	1403	1713	2.0F		1438	1755	1.4F
	2038				2114		
11		0018	1.8E	26		0039	1.4E
Th	0320	0559	1.5F	F	0351	0635	1.1F
	0904	1227	1.5E		0931	1243	1.1E
	1503	1811	2.0F		1520	1837	1.5F
	2135				2153		
12		0114	1.9E	27		0119	1.4E
F	0414	0656	1.6F	Sa	0424	0713	1.2F
	1000	1324	1.6E		1012	1326	1.2E
	1601	1908	2.0F		1600	1917	1.5F
	2230				2230		
13		0206	1.9E	28		0156	1.5E
Sa	0507	0749	1.7F	Su	0455	0748	1.2F
	1055	1417	1.6E		1051	1406	1.2E
	1659	2002	2.0F		1641	1954	1.5F
	2323				2305		
14		0256	1.9E	29		0231	1.5E
Su	0557	0840	1.7F	M	0526	0821	1.3F
	1150	1510	1.6E		1128	1444	1.2E
	1755	2054	1.9F		1722	2030	1.4F
					2340		
15	0014	0346	1.8E	30		0305	1.4E
M	0646	0931	1.6F	Tu	0557	0855	1.3F
	1243	1604	1.5E		1205	1523	1.2E
	1851	2148	1.7F		1807	2108	1.4F
				31	0015	0338	1.4E
				W	0630	0930	1.4F
					1243	1605	1.2E
					1852	2151	1.3F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0053	0414	1.3E	16	0204	0533	1.1E
Th	0707	1011	1.4F	F	0817	1127	1.3F
	1325	1651	1.2E		1442	1813	1.1E
	1944	2240	1.2F		2122		
2	0135	0456	1.2E	17		0002	0.9F
F	0749	1058	1.5F	Sa	0252	0619	0.9E
	1413	1745	1.2E		0900	1218	1.2F
	2041	2335	1.1F		1536	1907	1.0E
					2226		
3	0226	0546	1.1E	18		0058	0.8F
Sa	0838	1151	1.5F	Su	0345	0709	0.8E
	1508	1845	1.2E		0948	1310	1.1F
	2147				1633	2005	1.0E
					2327		
4		0034	1.1F	19		0157	0.7F
Su	0325	0646	1.1E	M	0442	0805	0.8E
	0934	1249	1.5F		1041	1407	1.1F
	1610	1953	1.3E		1730	2102	1.0E
	2254						
5		0137	1.1F	20	0024	0257	0.7F
M	0431	0757	1.1E	Tu	0539	0902	0.8E
	1037	1351	1.6F		1136	1505	1.2F
	1715	2103	1.4E		1825	2154	1.1E
6	0001	0243	1.2F	21	0116	0352	0.8F
Tu	0538	0909	1.2E	W	0635	0955	0.9E
	1142	1457	1.7F		1230	1557	1.2F
	1821	2207	1.5E		1917	2240	1.2E
7	0107	0346	1.3F	22	0201	0438	0.9F
W	0646	1014	1.3E	Th	0730	1044	1.0E
	1249	1600	1.8F		1323	1644	1.3F
	1926	2306	1.7E		2004	2325	1.3E
8	0208	0446	1.4F	23	0239	0521	1.0F
Th	0750	1115	1.4E	F	0819	1131	1.1E
	1353	1700	1.9F		1412	1728	1.4F
	2027				2046		
9		0003	1.8E	24		0007	1.4E
F	0303	0543	1.6F	Sa	0313	0601	1.1F
	0850	1213	1.6E		0903	1217	1.2E
	1454	1758	2.0F		1458	1810	1.4F
	2123				2126		
10		0056	1.9E	25		0047	1.4E
Sa	0355	0638	1.7F	Su	0345	0639	1.3F
	0945	1308	1.7E		0944	1301	1.3E
	1551	1853	2.0F		1541	1851	1.5F
	2214				2202		
11		0146	1.9E	26		0125	1.5E
Su	0444	0729	1.8F	M	0416	0714	1.4F
	1038	1400	1.7E		1022	1343	1.4E
	1647	1945	1.9F		1623	1929	1.5F
	2303				2238		
12		0232	1.9E	27		0201	1.5E
M	0530	0817	1.8F	Tu	0448	0748	1.5F
	1128	1450	1.7E		1059	1422	1.4E
	1740	2035	1.8F		1707	2007	1.5F
	2350				2313		
13		0317	1.7E	28		0235	1.4E
Tu	0615	0904	1.7F	W	0520	0823	1.5F
	1217	1539	1.5E		1136	1501	1.4E
	1833	2124	1.6F		1751	2047	1.4F
					2350		
14	0035	0402	1.5E	29		0310	1.4E
W	0657	0950	1.6F	Th	0557	0900	1.6F
	1304	1629	1.4E		1215	1543	1.4E
	1926	2215	1.4F		1839	2130	1.3F
15	0119	0447	1.3E	30	0030	0347	1.3E
Th	0737	1038	1.5F	F	0637	0943	1.6F
	1351	1720	1.3E		1258	1630	1.3E
	2021	2308	1.1F		1929	2220	1.2F
				31	0114	0432	1.2E
				Sa	0722	1032	1.6F
					1348	1727	1.3E
					2027	2316	1.2F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0207	0529	1.1E	16		0020	0.7F
Su	0815	1129	1.5F	M	0303	0624	0.7E
	1446	1831	1.3E		0857	1228	1.1F
	2130				1547	1919	0.9E
					2240		
2		0016	1.1F	17		0115	0.7F
M	0309	0636	1.1E	Tu	0401	0721	0.7E
	0917	1230	1.5F		0955	1325	1.0F
	1552	1940	1.3E		1647	2017	0.9E
	2239				2336		
3		0120	1.1F	18		0215	0.7F
Tu	0418	0749	1.1E	W	0501	0822	0.8E
	1025	1336	1.5F		1055	1425	1.1F
	1702	2050	1.4E		1743	2112	1.0E
	2347						
4		0227	1.2F	19	0026	0312	0.8F
W	0528	0900	1.2E	Th	0559	0920	0.9E
	1135	1444	1.6F		1154	1521	1.1F
	1810	2153	1.5E		1837	2202	1.1E
5	0051	0332	1.3F	20	0110	0400	0.9F
Th	0636	1004	1.3E	F	0654	1012	1.0E
	1242	1549	1.7F		1251	1610	1.2F
	1915	2251	1.6E		1926	2246	1.2E
6	0150	0430	1.5F	21	0149	0442	1.1F
F	0739	1103	1.5E	Sa	0745	1101	1.2E
	1347	1648	1.8F		1345	1656	1.3F
	2014	2344	1.8E		2011	2329	1.3E
7	0243	0525	1.6F	22	0225	0521	1.2F
Sa	0837	1158	1.6E	Su	0830	1148	1.3E
	1446	1744	1.9F		1434	1739	1.4F
	2107				2052		
8		0034	1.8E	23		0011	1.4E
Su	0331	0617	1.7F	M	0259	0559	1.4F
	0928	1251	1.7E		0910	1234	1.4E
	1541	1837	1.9F		1521	1821	1.4F
	2154				2131		
9		0122	1.8E	24		0051	1.4E
M	0417	0706	1.8F	Tu	0333	0637	1.5F
	1017	1340	1.7E		0950	1317	1.5E
	1632	1927	1.8F		1606	1903	1.5F
	2240				2209		
10		0205	1.7E	25		0130	1.5E
Tu	0459	0751	1.8F	W	0409	0715	1.6F
	1102	1426	1.7E		1028	1359	1.6E
	1723	2014	1.7F		1651	1945	1.5F
	2323				2248		
11		0246	1.6E	26		0208	1.4E
W	0538	0834	1.7F	Th	0447	0754	1.7F
	1146	1511	1.6E		1108	1441	1.6E
	1812	2059	1.5F		1738	2027	1.4F
					2329		
12	0005	0326	1.4E	27		0247	1.4E
Th	0616	0916	1.6F	F	0528	0835	1.7F
	1229	1556	1.4E		1151	1526	1.5E
	1900	2145	1.3F		1826	2113	1.4F
13	0046	0406	1.2E	28	0012	0329	1.3E
F	0651	0959	1.4F	Sa	0613	0920	1.7F
	1311	1643	1.2E		1238	1618	1.4E
	1949	2234	1.1F		1918	2204	1.3F
14	0128	0448	1.0E	29	0101	0422	1.2E
Sa	0728	1046	1.3F	Su	0704	1014	1.6F
	1358	1732	1.1E		1331	1718	1.4E
	2041	2326	0.9F		2015	2302	1.2F
15	0212	0534	0.8E	30	0157	0526	1.1E
Su	0809	1136	1.2F	M	0802	1114	1.5F
	1449	1823	1.0E		1432	1822	1.3E
	2139				2119		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0004	1.2F	16		0034	0.7F
Tu	0302	0633	1.1E	W	0324	0639	0.7E
	0909	1218	1.5F		0913	1243	1.0F
	1542	1929	1.3E		1600	1929	0.9E
	2227				2237		
2		0108	1.2F	17		0128	0.7F
W	0413	0744	1.1E	Th	0424	0741	0.8E
	1020	1325	1.5F		1016	1340	1.0F
	1652	2035	1.4E		1656	2024	1.0E
	2332				2324		
3		0214	1.3F	18		0223	0.8F
Th	0523	0851	1.2E	F	0521	0842	0.9E
	1131	1434	1.5F		1118	1438	1.1F
	1759	2136	1.5E		1749	2116	1.1E
4	0032	0317	1.4F	19	0008	0312	1.0F
F	0628	0953	1.4E	Sa	0615	0938	1.0E
	1238	1537	1.6F		1218	1531	1.2F
	1901	2231	1.6E		1840	2203	1.2E
5	0128	0413	1.5F	20	0050	0356	1.2F
Sa	0728	1049	1.5E	Su	0705	1028	1.2E
	1340	1634	1.7F		1315	1619	1.2F
	1956	2321	1.7E		1928	2247	1.3E
6	0218	0505	1.7F	21	0131	0437	1.4F
Su	0821	1142	1.6E	M	0751	1117	1.4E
	1438	1728	1.7F		1409	1704	1.3F
	2046				2013	2331	1.3E
7		0009	1.7E	22	0211	0518	1.5F
M	0303	0553	1.8F	Tu	0835	1204	1.5E
	0909	1232	1.7E		1459	1750	1.4F
	1529	1818	1.7F		2058		
	2131						
8		0054	1.6E	23		0015	1.4E
Tu	0345	0639	1.8F	W	0252	0600	1.7F
	0952	1319	1.7E		0918	1252	1.6E
	1619	1906	1.6F		1547	1837	1.4F
	2214				2140		
9		0136	1.5E	24		0100	1.4E
W	0424	0723	1.8F	Th	0334	0643	1.8F
	1034	1402	1.6E		1000	1338	1.7E
	1706	1952	1.5F		1635	1923	1.5F
	2256				2224		
10		0215	1.4E	25		0144	1.4E
Th	0500	0804	1.7F	F	0419	0729	1.9F
	1115	1444	1.5E		1045	1424	1.7E
	1750	2034	1.4F		1723	2010	1.5F
	2336				2310		
11		0252	1.2E	26		0229	1.4E
F	0536	0843	1.6F	Sa	0507	0815	1.8F
	1155	1524	1.4E		1133	1513	1.7E
	1834	2117	1.2F		1814	2058	1.4F
12	0015	0328	1.1E	27	0000	0319	1.3E
Sa	0610	0924	1.4F	Su	0558	0906	1.8F
	1236	1606	1.2E		1225	1608	1.6E
	1917	2203	1.0F		1908	2151	1.3F
13	0055	0406	0.9E	28	0053	0417	1.2E
Su	0647	1008	1.3F	M	0654	1001	1.7F
	1319	1652	1.1E		1321	1708	1.5E
	2001	2251	0.9F		2005	2250	1.3F
14	0138	0450	0.8E	29	0152	0522	1.2E
M	0728	1056	1.1F	Tu	0756	1104	1.5F
	1407	1741	1.0E		1423	1811	1.4E
	2050	2342	0.8F		2107	2352	1.3F
15	0227	0542	0.8E	30	0258	0627	1.2E
Tu	0816	1148	1.1F	W	0904	1208	1.4F
	1502	1834	0.9E		1531	1913	1.4E
	2144				2211		
				31		0055	1.3F
				Th	0408	0733	1.2E
					1017	1314	1.4F
					1639	2015	1.4E
					2312		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 327° True E-Ebb, Dir. 147° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0158	1.4F	16		0129	1.0F
F	0515	0838	1.3E	Sa	0440	0802	0.9E
	1127	1421	1.4F		1042	1350	1.0F
	1741	2114	1.4E		1658	2024	1.1E
					2309		
2	0008	0258	1.5F	17		0219	1.1F
Sa	0616	0938	1.4E	Su	0532	0900	1.1E
	1232	1523	1.4F		1144	1447	1.1F
	1840	2207	1.5E		1750	2115	1.1E
					2353		
3	0100	0353	1.6F	18		0307	1.3F
Su	0712	1032	1.5E	M	0622	0954	1.3E
	1332	1619	1.5F		1244	1540	1.2F
	1934	2255	1.5E		1842	2204	1.2E
4	0148	0442	1.7F	19	0039	0354	1.5F
M	0802	1123	1.6E	Tu	0711	1045	1.4E
	1427	1710	1.5F		1342	1631	1.3F
	2022	2341	1.5E		1934	2253	1.3E
5	0232	0528	1.7F	20	0128	0440	1.7F
Tu	0847	1212	1.6E	W	0800	1136	1.6E
	1517	1759	1.5F		1437	1721	1.3F
	2107				2025	2342	1.3E
6		0025	1.4E	21	0217	0528	1.8F
W	0312	0612	1.7F	Th	0849	1228	1.7E
	0928	1257	1.6E		1528	1812	1.4F
	1604	1846	1.4F		2114		
	2149						
7		0107	1.3E	22		0033	1.4E
Th	0350	0654	1.7F	F	0307	0617	1.9F
	1008	1339	1.6E		0938	1319	1.8E
	1648	1930	1.3F		1619	1903	1.5F
	2229				2204		
8		0146	1.2E	23		0125	1.4E
F	0426	0735	1.6F	Sa	0358	0709	1.9F
	1047	1419	1.5E		1028	1410	1.8E
	1730	2012	1.2F		1710	1953	1.5F
	2309				2255		
9		0222	1.1E	24		0217	1.4E
Sa	0500	0815	1.5F	Su	0451	0800	1.9F
	1126	1457	1.4E		1120	1502	1.8E
	1810	2052	1.1F		1802	2044	1.5F
	2348				2349		
10		0257	1.0E	25		0311	1.4E
Su	0536	0854	1.4F	M	0548	0854	1.8F
	1206	1536	1.3E		1215	1556	1.7E
	1848	2134	1.0F		1856	2138	1.5F
11	0028	0334	0.9E	26	0045	0409	1.4E
M	0613	0935	1.3F	Tu	0647	0951	1.7F
	1248	1617	1.2E		1312	1654	1.6E
	1927	2217	0.9F		1951	2237	1.4F
12	0110	0416	0.9E	27	0144	0512	1.3E
Tu	0656	1020	1.2F	W	0749	1052	1.6F
	1332	1703	1.1E		1411	1753	1.5E
	2007	2304	0.8F		2049	2337	1.4F
13	0157	0507	0.8E	28	0249	0614	1.3E
W	0742	1109	1.1F	Th	0857	1155	1.4F
	1419	1751	1.0E		1514	1851	1.4E
	2051	2352	0.8F		2148		
14	0248	0604	0.8E	29		0037	1.4F
Th	0837	1201	1.0F	F	0356	0717	1.3E
	1511	1840	1.0E		1008	1258	1.3F
	2137				1617	1949	1.4E
					2245		
15		0040	0.9E	30		0136	1.4F
F	0345	0701	0.8E	Sa	0500	0820	1.3E
	0938	1254	1.0F		1117	1402	1.3F
	1605	1931	1.0E		1717	2045	1.3E
	2223				2338		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0234	1.5F	16		0129	1.3F
Su	0558	0919	1.4E	M	0448	0820	1.1E
	1221	1504	1.3F		1112	1404	1.0F
	1813	2138	1.3E		1703	2026	1.1E
					2305		
2	0028	0327	1.5F	17		0221	1.4F
M	0651	1013	1.4E	Tu	0541	0920	1.3E
	1320	1600	1.3F		1215	1503	1.1F
	1907	2227	1.3E		1759	2124	1.1E
					2357		
3	0115	0416	1.6F	18		0315	1.6F
Tu	0740	1103	1.5E	W	0635	1016	1.5E
	1414	1650	1.3F		1316	1600	1.2F
	1957	2312	1.2E		1858	2219	1.2E
4	0159	0502	1.6F	19	0052	0409	1.7F
W	0824	1150	1.5E	Th	0731	1111	1.6E
	1503	1738	1.2F		1414	1655	1.3F
	2042	2356	1.2E		1956	2315	1.3E
5	0241	0546	1.6F	20	0149	0502	1.9F
Th	0905	1234	1.5E	F	0826	1207	1.7E
	1548	1825	1.2F		1509	1749	1.4F
	2124				2051		
6		0039	1.1E	21		0013	1.4E
F	0319	0629	1.6F	Sa	0247	0557	1.9F
	0945	1317	1.5E		0920	1302	1.8E
	1629	1909	1.2F		1602	1844	1.5F
	2205				2146		
7		0119	1.1E	22		0109	1.5E
Sa	0357	0711	1.5F	Su	0343	0653	2.0F
	1024	1356	1.4E		1015	1355	1.9E
	1709	1950	1.2F		1655	1938	1.6F
	2244				2241		
8		0157	1.1E	23		0204	1.5E
Su	0432	0750	1.5F	M	0440	0748	2.0F
	1102	1433	1.4E		1109	1447	1.9E
	1745	2029	1.1F		1747	2030	1.6F
	2324				2337		
9		0234	1.0E	24		0259	1.5E
M	0509	0829	1.4F	Tu	0539	0842	1.9F
	1141	1510	1.3E		1203	1540	1.8E
	1820	2107	1.1F		1839	2122	1.6F
10	0004	0311	1.0E	25	0033	0356	1.5E
Tu	0548	0908	1.3F	W	0638	0937	1.8F
	1220	1547	1.3E		1258	1634	1.7E
	1854	2146	1.0F		1931	2218	1.6F
11	0045	0350	0.9E	26	0131	0455	1.4E
W	0630	0948	1.2F	Th	0739	1036	1.6F
	1300	1627	1.2E		1352	1729	1.6E
	1929	2227	1.0F		2023	2315	1.5F
12	0128	0438	0.9E	27	0231	0555	1.4E
Th	0716	1033	1.1F	F	0843	1136	1.4F
	1341	1709	1.1E		1449	1823	1.4E
	2005	2310	1.0F		2117		
13	0213	0529	0.9E	28		0011	1.5F
F	0807	1121	1.1F	Sa	0333	0655	1.3E
	1425	1753	1.1E		0952	1237	1.3F
	2045	2354	1.1F		1547	1917	1.3E
					2211		
14	0303	0622	0.9E	29		0107	1.4F
Sa	0905	1213	1.0F	Su	0435	0755	1.3E
	1515	1839	1.1E		1100	1338	1.1F
	2129				1646	2012	1.2E
					2302		
15		0039	1.2F	30		0203	1.4F
Su	0356	0720	1.0E	M	0532	0855	1.3E
	1009	1306	1.0F		1204	1441	1.1F
	1608	1929	1.1E		1742	2106	1.1E
	2216				2352		
				31		0259	1.4F
				Tu	0625	0951	1.3E
					1304	1538	1.0F
					1836	2157	1.1E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	*	0208	1.8E
Tu	0507	0753	1.5F
	1130	1457	1.8E
	1801	2028	1.1F
	2327		
2		0300	1.8E
W	0600	0846	1.4F
	1219	1544	1.7E
	1851	2120	1.1F
3	0024	0351	1.7E
Th	0658	0937	1.3F
	1305	1632	1.6E
	1943	2211	1.1F
4	0121	0446	1.5E
F	0755	1028	1.1F
	1350	1726	1.5E
	2034	2305	1.0F
5	0218	0548	1.4E
Sa	0854	1122	0.9F
*	1433	1820	1.4E
	2127		
6		0002	0.9F
Su	0318	0652	1.2E
	1000	1219	0.7F
	1517	1913	1.2E
	2221		
7		0057	0.8F
M	0426	0755	1.1E
	1114	1315	0.5F
	1606	2005	1.0E
	2318		
8		0155	0.7F
Tu	0535	0906	1.0E
	1231	1421	0.3F
	1702	2105	0.9E
9	0017	0308	0.7F
W	0639	1018	0.9E
	1349	1551	*
	1758	2209	0.9E
10	0115	0421	0.7F
Th	0738	1117	1.0E
	1453	1652	0.3F
	1852	2302	0.9E
11	0210	0510	0.7F
F	0831	1208	1.0E
	1538	1732	0.3F
	1943	2347	0.9E
12	0259	0549	0.8F
Sa	0917	1250	1.0E
	1611	1808	0.4F
	2034		
13		0027	1.0E
Su	0340	0626	0.8F
	0956	1329	1.1E
	1643	1847	0.5F
	2120		
14		0107	1.1E
M	0419	0705	0.9F
	1031	1401	1.1E
	1716	1929	0.5F
	2204		
15		0145	1.2E
Tu	0453	0745	0.9F
	1105	1431	1.2E
	1749	2009	0.6F
	2246		
16		0221	1.2E
W	0529	0822	1.0F
	1139	1459	1.3E
	1822	2046	0.6F
	2328		
17		0258	1.2E
Th	0607	0857	1.0F
	1211	1529	1.3E
	1858	2120	0.7F
18	0010	0335	1.2E
F	0647	0931	0.9F
	1243	1602	1.3E
	1931	2154	0.7F
19	0053	0416	1.2E
Sa	0730	1006	0.9F
	1312	1640	1.3E
	2005	2230	0.7F
20	0136	0504	1.1E
Su	0817	1045	0.8F
	1341	1723	1.2E
	2040	2311	0.8F
21	0222	0600	1.0E
M	0909	1131	0.6F
	1410	1810	1.2E
	2121	2356	0.8F
22	0317	0658	1.0E
Tu	1010	1223	0.5F
	1445	1859	1.2E
	2209		
23		0046	0.8F
W	0425	0757	1.0E
	1119	1318	0.4F
	1534	1952	1.1E
	2304		
24		0141	0.8F
Th	0537	0907	1.0E
	1229	1423	0.4F
	1647	2054	1.1E
25	0006	0248	0.9F
F	0643	1018	1.1E
	1335	1540	0.5F
	1805	2204	1.2E
26	0109	0401	1.0F
Sa	0747	1119	1.2E
	1432	1644	0.6F
	1917	2307	1.4E
27	0212	0500	1.1F
Su	0846	1213	1.4E
	1522	1736	0.8F
	2026		
28		0006	1.5E
M	0311	0553	1.2F
	0939	1306	1.5E
	1609	1827	0.9F
	2128		
29		0104	1.6E
Tu	0406	0646	1.3F
	1027	1355	1.7E
	1654	1921	1.1F
	2225		
30		0159	1.7E
W	0458	0740	1.3F
	1112	1440	1.7E
	1740	2013	1.2F
	2319		
31		0249	1.7E
Th	0550	0831	1.3F
	1156	1523	1.7E
	1827	2101	1.2F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0011	0336	1.7E
F	0643	0918	1.2F
	1237	1605	1.6E
	1912	2148	1.2F
2	0103	0426	1.6E
Sa	0738	1005	1.0F
	1317	1649	1.5E
	1959	2235	1.1F
3	0154	0522	1.4E
Su	0834	1054	0.8F
	1353	1736	1.3E
	2045	2324	1.0F
4	0245	0622	1.2E
M	0934	1146	0.6F
	1428	1826	1.1E
	2134		
5		0015	0.9F
Tu	0341	0720	1.0E
	1042	1239	0.4F
	1503	1913	1.0E
	2230		
6		0108	0.7F
W	0446	0823	0.9E
	1158	1334	0.3F
	1546	2005	0.8E
	2332		
7		0208	0.6F
Th	0554	0939	0.8E
	1315	1447	*
	1650	2112	0.8E
8	0038	0335	0.6F
F	0657	1046	0.8E
	1424	1620	*
	1802	2222	0.8E
9	0141	0446	0.6F
Sa	0754	1136	0.8E
	1511	1709	0.3F
	1905	2314	0.9E
10	0236	0527	0.7F
Su	0844	1218	0.9E
	1546	1747	0.4F
	2005	2357	1.0E
11	0319	0604	0.8F
M	0924	1253	1.0E
	1615	1824	0.5F
	2059		
12		0039	1.1E
Tu	0356	0639	0.8F
	0959	1326	1.1E
	1643	1903	0.6F
	2147		
13		0120	1.2E
W	0430	0716	0.9F
	1031	1356	1.3E
	1712	1941	0.7F
	2231		
14		0200	1.3E
Th	0506	0753	1.0F
	1103	1426	1.4E
	1742	2017	0.8F
	2314		
15		0238	1.3E
F	0543	0829	1.0F
	1135	1458	1.4E
	1813	2051	0.9F
	2356		
16		0317	1.3E
Sa	0627	0904	1.0F
	1207	1531	1.5E
	1848	2123	1.0F
17	0038	0358	1.3E
Su	0711	0941	0.9F
	1238	1608	1.4E
	1922	2159	1.0F
18	0121	0444	1.3E
M	0800	1021	0.8F
	1310	1650	1.4E
	2001	2239	1.0F
19	0205	0540	1.2E
Tu	0852	1108	0.7F
	1343	1740	1.3E
	2046	2326	1.0F
20	0255	0639	1.1E
W	0952	1201	0.5F
	1422	1834	1.2E
	2138		
21		0019	0.9F
Th	0358	0740	1.0E
	1101	1259	0.5F
	1515	1932	1.1E
	2240		
22		0117	0.9F
F	0514	0849	1.0E
	1211	1404	0.4F
	1635	2038	1.1E
	2349		
23		0225	0.8F
Sa	0627	1004	1.1E
	1319	1526	0.4F
	1803	2153	1.2E
24	0100	0347	0.9F
Su	0732	1106	1.2E
	1419	1637	0.6F
	1919	2302	1.3E
25	0208	0453	1.0F
M	0831	1200	1.4E
	1509	1729	0.8F
	2028		
26		0002	1.4E
Tu	0308	0545	1.1F
	0923	1250	1.5E
	1552	1818	1.0F
	2128		
27		0058	1.6E
W	0400	0635	1.1F
	1008	1337	1.6E
	1636	1907	1.1F
	2221		
28		0151	1.6E
Th	0450	0725	1.1F
	1049	1420	1.7E
	1717	1956	1.2F
	2310		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1991

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0238	1.7E	16		0217	1.4E
F	0540	0814	1.1F	Sa	0522	0757	0.9F
	1128	1459	1.6E		1054	1424	1.6E
	1758	2040	1.3F		1730	2017	1.1F
	2358				2338		
2		0323	1.6E	17		0258	1.5E
Sa	0630	0858	1.0F	Su	0608	0837	0.9F
	1204	1536	1.5E		1129	1501	1.6E
	1840	2122	1.3F		1807	2054	1.2F
3	0043	0407	1.5E	18	0020	0340	1.5E
Su	0722	0942	0.9F	M	0655	0918	0.9F
	1240	1612	1.4E		1206	1540	1.6E
	1922	2203	1.2F		1847	2132	1.3F
4	0128	0454	1.4E	19	0104	0427	1.4E
M	0815	1026	0.7F	Tu	0746	1001	0.8F
	1313	1651	1.2E		1244	1624	1.5E
	2005	2247	1.1F		1931	2214	1.2F
5	0211	0547	1.2E	20	0150	0522	1.3E
Tu	0909	1114	0.6F	W	0839	1049	0.7F
	1345	1736	1.1E		1327	1717	1.3E
	2051	2335	0.9F		2021	2303	1.1F
6	0257	0643	1.0E	21	0240	0624	1.2E
W	1009	1204	0.4F	Th	0939	1145	0.6F
	1417	1825	0.9E		1414	1817	1.2E
	2144				2118		
7		0027	0.7F	22		0000	1.0F
Th	0352	0737	0.8E	F	0341	0726	1.1E
	1119	1257	0.3F		1046	1246	0.5F
	1452	1915	0.8E		1515	1920	1.1E
	2247				2225		
8		0122	0.6F	23		0101	0.9F
F	0500	0843	0.7E	Sa	0457	0833	1.1E
	1231	1356	*		1155	1354	0.5F
	1541	2010	0.7E		1643	2029	1.1E
	2357				2339		
9		0233	0.5F	24		0210	0.8F
Sa	0606	0957	0.7E	Su	0609	0946	1.1E
	1342	1533	*		1301	1519	0.5F
	1713	2124	0.7E		1811	2147	1.1E
10	0102	0405	0.5F	25	0052	0336	0.7F
Su	0704	1054	0.8E	M	0713	1049	1.2E
	1434	1644	*		1400	1634	0.7F
	1832	2233	0.8E		1925	2257	1.2E
11	0200	0456	0.6F	26	0201	0446	0.8F
M	0754	1133	0.9E	Tu	0809	1142	1.4E
	1509	1722	0.4F		1450	1724	0.8F
	1939	2322	0.9E		2031	2356	1.4E
12	0247	0531	0.7F	27	0302	0536	0.9F
Tu	0836	1206	1.0E	W	0859	1230	1.5E
	1537	1756	0.5F		1533	1808	1.0F
	2038				2127		
13		0007	1.0E	28		0051	1.5E
W	0326	0604	0.8F	Th	0356	0622	0.9F
	0913	1238	1.2E		0941	1315	1.5E
	1602	1830	0.7F		1612	1852	1.1F
	2128				2216		
14		0051	1.2E	29		0142	1.5E
Th	0403	0639	0.9F	F	0444	0708	0.9F
	0947	1313	1.3E		1020	1357	1.5E
	1630	1905	0.8F		1650	1935	1.2F
	2213				2300		
15		0135	1.3E	30		0227	1.6E
F	0441	0717	0.9F	Sa	0531	0754	0.9F
	1021	1348	1.5E		1055	1434	1.5E
	1659	1941	1.0F		1729	2016	1.3F
	2256				2342		
				31		0309	1.5E
				Su	0620	0838	0.8F
					1129	1507	1.4E
					1807	2056	1.2F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0023	0348	1.4E	16	0001	0323	1.6E
M	0709	0919	0.7F	Tu	0638	0856	0.9F
	1202	1540	1.3E		1138	1518	1.6E
	1848	2135	1.2F		1819	2110	1.4F
2	0103	0428	1.3E	17	0048	0411	1.5E
Tu	0757	1000	0.6F	W	0730	0943	0.8F
	1237	1613	1.2E		1226	1605	1.6E
	1930	2216	1.0F		1910	2156	1.4F
3	0143	0514	1.1E	18	0138	0507	1.5E
W	0846	1044	0.5F	Th	0824	1035	0.8F
	1309	1652	1.0E		1317	1700	1.4E
	2016	2301	0.9F		2005	2248	1.2F
4	0224	0605	1.0E	19	0230	0609	1.4E
Th	0939	1133	0.4F	F	0923	1134	0.7F
	1342	1741	0.9E		1413	1805	1.3E
	2105	2352	0.7F		2105	2348	1.1F
5	0310	0657	0.8E	20	0329	0712	1.3E
F	1040	1225	0.3F	Sa	1029	1237	0.6F
	1419	1835	0.8E		1523	1911	1.2E
	2203				2213		
6		0045	0.6F	21		0050	0.9F
Sa	0407	0746	0.7E	Su	0438	0815	1.2E
	1148	1319	*		1136	1344	0.6F
	1505	1929	0.8E		1651	2021	1.1E
	2308				2329		
7		0142	0.5F	22		0156	0.8F
Su	0510	0844	0.7E	M	0544	0922	1.2E
	1251	1430	*		1239	1508	0.6F
	1627	2029	0.7E		1813	2138	1.1E
8	0011	0253	0.5F	23	0042	0319	0.7F
M	0606	0946	0.8E	Tu	0644	1025	1.3E
	1341	1608	0.3F		1336	1626	0.8F
	1804	2142	0.8E		1924	2248	1.2E
9	0111	0404	0.5F	24	0154	0434	0.7F
Tu	0652	1034	0.9E	W	0737	1118	1.3E
	1418	1651	0.4F		1426	1715	0.9F
	1913	2244	0.9E		2027	2347	1.3E
10	0204	0447	0.6F	25	0258	0523	0.7F
W	0735	1111	1.1E	Th	0826	1205	1.4E
	1447	1721	0.6F		1509	1754	1.0F
	2013	2334	1.0E		2120		
11	0251	0523	0.7F	26		0041	1.4E
Th	0815	1147	1.2E	F	0350	0605	0.7F
	1513	1751	0.8F		0909	1250	1.4E
	2105				1548	1833	1.1F
12		0021	1.2E		2206		
F	0335	0559	0.8F	27		0131	1.4E
	0855	1226	1.4E	Sa	0438	0648	0.7F
	1542	1824	1.0F		0946	1331	1.4E
	2150				1625	1912	1.2F
13		0108	1.3E		2247		
Sa	0418	0639	0.8F	28		0215	1.4E
	0933	1308	1.5E	Su	0523	0733	0.6F
	1616	1901	1.2F		1021	1408	1.3E
	2233				1701	1952	1.2F
14		0155	1.5E		2326		
Su	0501	0724	0.9F	29		0255	1.4E
	1012	1351	1.6E	M	0609	0816	0.6F
	1652	1943	1.3F		1054	1441	1.3E
	2316				1739	2032	1.2F
15		0239	1.6E	30	0004	0331	1.3E
M	0549	0810	0.9F	Tu	0653	0857	0.6F
	1054	1434	1.7E		1128	1513	1.2E
	1733	2025	1.4F		1820	2111	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 W	0042	0407	1.2E
	0739	0937	0.5F
	1202	1545	1.1E
	1902	2151	1.0F
2 Th	0121	0446	1.1E
	0824	1019	0.4F
	1239	1622	1.0E
	1947	2234	0.9F
3 F	0201	0532	1.0E
	0912	1106	0.4F
	1317	1708	0.9E
	2033	2323	0.8F
4 Sa	0241	0620	0.9E
	1008	1157	0.3F
	1357	1803	0.8E
	2123		
5 Su		0012	0.7F
	0326	0705	0.9E
	1105	1250	*
	1446	1857	0.8E
	2218		
6 M		0102	0.6F
	0415	0749	0.9E
	1157	1347	*
	1603	1951	0.7E
	2319		
7 Tu		0153	0.5F
	0503	0837	0.9E
	1240	1458	0.3F
	1737	2054	0.7E
8 W	0019	0253	0.5F
	0548	0927	1.0E
	1314	1558	0.5F
	1845	2202	0.8E
9 Th	0119	0352	0.5F
	0630	1015	1.1E
	1348	1637	0.7F
	1943	2300	1.0E
10 F	0215	0439	0.6F
	0713	1100	1.3E
	1421	1710	0.9F
	2035	2350	1.1E
11 Sa	0306	0521	0.7F
	0758	1144	1.4E
	1459	1746	1.2F
	2123		
12 Su		0040	1.3E
	0353	0605	0.8F
	0846	1230	1.5E
	1539	1826	1.3F
	2209		
13 M		0131	1.5E
	0439	0652	0.8F
	0934	1320	1.6E
	1621	1912	1.5F
	2256		
14 Tu		0220	1.6E
	0528	0744	0.9F
	1023	1410	1.7E
	1709	2002	1.5F
	2344		
15 W		0307	1.6E
	0619	0835	0.9F
	1116	1459	1.7E
	1759	2052	1.5F
16 Th	0034	0356	1.6E
	0712	0927	0.9F
	1210	1550	1.6E
	1854	2142	1.4F
17 F	0126	0451	1.6E
	0808	1021	0.8F
	1310	1647	1.5E
	1952	2236	1.3F
18 Sa	0218	0552	1.5E
	0906	1121	0.8F
	1413	1753	1.4E
	2053	2336	1.1F
19 Su	0312	0653	1.4E
	1008	1226	0.7F
	1525	1901	1.3E
	2200		
20 M		0037	0.9F
	0411	0752	1.4E
	1110	1331	0.7F
	1647	2008	1.2E
	2313		
21 Tu		0139	0.8F
	0512	0853	1.3E
	1210	1444	0.7F
	1804	2122	1.1E
22 W	0028	0252	0.6F
	0607	0954	1.3E
	1305	1604	0.8F
	1912	2233	1.1E
23 Th	0141	0410	0.5F
	0658	1049	1.3E
	1356	1656	0.9F
	2013	2332	1.2E
24 F	0248	0503	0.5F
	0745	1137	1.3E
	1441	1735	1.0F
	2106		
25 Sa		0026	1.2E
	0343	0545	0.5F
	0829	1221	1.2E
	1522	1812	1.0F
	2151		
26 Su		0116	1.3E
	0429	0626	0.5F
	0908	1303	1.2E
	1601	1850	1.1F
	2232		
27 M		0201	1.3E
	0511	0709	0.5F
	0945	1342	1.2E
	1639	1931	1.1F
	2310		
28 Tu		0240	1.2E
	0553	0753	0.5F
	1020	1418	1.2E
	1718	2013	1.1F
	2348		
29 W		0315	1.2E
	0637	0835	0.5F
	1057	1450	1.2E
	1758	2053	1.0F
30 Th	0026	0347	1.1E
	0720	0916	0.4F
	1135	1523	1.1E
	1840	2133	1.0F
31 F	0104	0421	1.1E
	0803	0957	0.4F
	1217	1559	1.1E
	1922	2213	0.9F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Sa	0140	0500	1.0E
	0848	1042	0.4F
	1300	1642	1.0E
	2005	2256	0.8F
2 Su	0216	0545	1.0E
	0932	1132	0.3F
	1345	1734	0.9E
	2048	2340	0.7F
3 M	0251	0628	1.0E
	1019	1221	0.3F
	1436	1829	0.8E
	2137		
4 Tu		0025	0.6F
	0326	0709	1.0E
	1100	1307	0.4F
	1545	1922	0.8E
	2232		
5 W		0109	0.6F
	0404	0750	1.1E
	1138	1355	0.4F
	1707	2018	0.8E
	2335		
6 Th		0158	0.5F
	0446	0835	1.1E
	1214	1449	0.6F
	1812	2123	0.8E
7 F	0038	0256	0.5F
	0531	0926	1.2E
	1252	1543	0.8F
	1909	2226	0.9E
8 Sa	0140	0356	0.5F
	0619	1018	1.3E
	1336	1630	1.0F
	2004	2321	1.1E
9 Su	0237	0447	0.6F
	0711	1109	1.4E
	1421	1713	1.2F
	2056		
10 M		0014	1.3E
	0329	0535	0.7F
	0806	1201	1.6E
	1510	1758	1.4F
	2147		
11 Tu		0109	1.4E
	0418	0625	0.8F
	0903	1255	1.7E
	1559	1848	1.5F
	2237		
12 W		0202	1.6E
	0507	0719	0.9F
	1001	1351	1.7E
	1650	1942	1.5F
	2328		
13 Th		0251	1.6E
	0558	0816	0.9F
	1059	1444	1.8E
	1744	2036	1.5F
14 F	0019	0340	1.7E
	0651	0910	1.0F
	1200	1537	1.7E
	1841	2129	1.5F
15 Sa	0110	0433	1.6E
	0748	1005	0.9F
	1303	1634	1.6E
	1939	2222	1.3F
16 Su	0200	0530	1.6E
	0842	1105	0.9F
	1407	1739	1.4E
	2040	2320	1.1F
17 M	0249	0629	1.5E
	0940	1208	0.9F
	1515	1845	1.3E
	2145		
18 Tu		0019	0.9F
	0339	0724	1.4E
	1038	1308	0.9F
	1629	1950	1.2E
	2255		
19 W		0117	0.7F
	0433	0819	1.3E
	1136	1411	0.8F
	1742	2059	1.1E
20 Th	0009	0219	0.5F
	0527	0918	1.2E
	1230	1525	0.8F
	1848	2211	1.1E
21 F	0122	0334	0.4F
	0616	1016	1.2E
	1323	1630	0.9F
	1949	2312	1.1E
22 Sa	0232	0438	0.4F
	0702	1108	1.1E
	1414	1714	0.9F
	2045		
23 Su		0007	1.1E
	0329	0521	0.4F
	0746	1153	1.1E
	1500	1752	0.9F
	2133		
24 M		0057	1.1E
	0414	0601	0.4F
	0829	1236	1.1E
	1542	1831	0.9F
	2215		
25 Tu		0143	1.1E
	0454	0643	0.4F
	0910	1317	1.1E
	1622	1913	0.9F
	2253		
26 W		0222	1.1E
	0532	0728	0.4F
	0951	1355	1.1E
	1700	1956	1.0F
	2330		
27 Th		0256	1.1E
	0612	0814	0.4F
	1032	1430	1.2E
	1739	2036	1.0F
28 F	0006	0325	1.1E
	0655	0856	0.4F
	1116	1504	1.1E
	1818	2114	1.0F
29 Sa	0041	0355	1.1E
	0736	0936	0.4F
	1201	1540	1.1E
	1858	2151	0.9F
30 Su	0115	0429	1.1E
	0815	1017	0.4F
	1248	1621	1.0E
	1939	2228	0.9F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0146	0507	1.1E	16	0219	0558	1.5E
W	0851	1100	0.4F	Tu	0907	1140	1.0F
	1335	1709	0.9E		1454	1825	1.3E
	2021	2308	0.8F		2127	2356	0.9F
2	0216	0549	1.1E	17	0304	0651	1.4E
Tu	0928	1143	0.5F	W	1000	1237	0.9F
	1424	1803	0.9E		1600	1927	1.2E
	2108	2350	0.7F		2233		
3	0245	0631	1.2E	18		0051	0.7F
W	1003	1226	0.5F	Th	0352	0743	1.3E
	1522	1856	0.8E		1058	1333	0.8F
	2200				1710	2031	1.1E
					2345		
4		0034	0.6F	19		0147	0.5F
Th	0316	0713	1.2E	F	0443	0838	1.1E
	1041	1309	0.6F		1155	1438	0.8F
	1632	1950	0.8E		1815	2142	1.0E
	2302						
5		0120	0.5F	20	0057	0253	0.4F
F	0355	0757	1.2E	Sa	0534	0939	1.0E
	1123	1355	0.7F		1252	1554	0.7F
	1738	2050	0.9E		1917	2247	0.9E
6	0007	0214	0.5F	21	0207	0406	0.3F
Sa	0444	0848	1.2E	Su	0622	1037	1.0E
	1210	1453	0.8F		1349	1653	0.8F
	1837	2157	0.9E		2016	2342	0.9E
7	0110	0318	0.5F	22	0305	0457	0.3F
Su	0541	0946	1.3E	M	0708	1126	1.0E
	1301	1554	1.0F		1440	1735	0.8F
	1935	2258	1.1E		2108		
8	0210	0420	0.6F	23		0032	0.9E
M	0639	1044	1.4E	Tu	0350	0537	0.3F
	1356	1647	1.2F		0754	1208	1.1E
	2033	2353	1.2E		1526	1813	0.8F
					2151		
9	0304	0512	0.7F	24		0117	1.0E
Tu	0740	1140	1.5E	W	0429	0617	0.4F
	1450	1737	1.3F		0843	1250	1.1E
	2128				1605	1853	0.9F
					2228		
10		0049	1.4E	25		0155	1.0E
W	0356	0604	0.8F	Th	0504	0701	0.4F
	0845	1238	1.7E		0930	1330	1.1E
	1544	1830	1.4F		1641	1935	0.9F
	2220				2302		
11		0144	1.5E	26		0227	1.1E
Th	0444	0659	0.9F	F	0540	0748	0.4F
	0948	1336	1.7E		1016	1408	1.2E
	1638	1925	1.5F		1718	2013	0.9F
	2310				2336		
12		0234	1.6E	27		0255	1.1E
F	0536	0757	1.0F	Sa	0618	0831	0.5F
	1049	1432	1.8E		1102	1445	1.2E
	1731	2021	1.5F		1755	2050	1.0F
13	0000	0322	1.7E	28	0008	0323	1.2E
Sa	0629	0853	1.0F	Su	0655	0910	0.5F
	1150	1524	1.8E		1149	1521	1.2E
	1828	2114	1.4F		1834	2124	0.9F
14	0048	0410	1.7E	29	0040	0354	1.2E
Su	0721	0947	1.1F	M	0730	0946	0.6F
	1252	1619	1.6E		1235	1600	1.1E
	1926	2205	1.3F		1916	2200	0.9F
15	0134	0503	1.6E	30	0111	0429	1.2E
M	0813	1042	1.1F	Tu	0803	1022	0.6F
	1353	1720	1.5E		1320	1646	1.0E
	2025	2259	1.1F		1959	2237	0.8F
				31	0140	0510	1.2E
				W	0838	1101	0.6F
					1406	1738	1.0E
					2047	2319	0.7F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0209	0555	1.2E	16		0023	0.6F
Th	0913	1144	0.7F	F	0310	0707	1.1E
	1455	1833	0.9E		1019	1255	0.8F
	2139				1628	1959	1.0E
					2317		
2		0005	0.6F	17		0117	0.5F
F	0240	0641	1.2E	Sa	0357	0758	1.0E
	0957	1229	0.7F		1119	1354	0.7F
	1556	1927	0.9E		1736	2106	0.9E
	2239						
3		0053	0.5F	18	0025	0214	0.3F
Sa	0320	0729	1.2E	Su	0451	0858	0.9E
	1046	1319	0.8F		1222	1511	0.6F
	1706	2026	0.9E		1840	2215	0.8E
	2342						
4		0145	0.5F	19	0131	0327	0.3F
Su	0414	0822	1.2E	M	0546	1002	0.9E
	1140	1417	0.8F		1323	1629	0.6F
	1811	2134	1.0E		1939	2313	0.8E
5	0047	0251	0.5F	20	0231	0430	0.3F
M	0519	0924	1.3E	Tu	0638	1055	1.0E
	1240	1526	0.9F		1419	1715	0.7F
	1914	2240	1.1E		2032	2359	0.8E
6	0148	0359	0.6F	21	0318	0514	0.3F
Tu	0625	1028	1.4E	W	0730	1139	1.0E
	1340	1630	1.1F		1505	1751	0.7F
	2014	2336	1.2E		2114		
7	0244	0456	0.7F	22		0039	0.9E
W	0731	1128	1.5E	Th	0355	0553	0.4F
	1439	1723	1.2F		0823	1221	1.1E
	2111				1542	1826	0.8F
					2150		
8		0031	1.4E	23		0114	1.0E
Th	0336	0549	0.8F	F	0428	0634	0.5F
	0838	1227	1.6E		0915	1303	1.2E
	1535	1816	1.3F		1619	1903	0.9F
	2201				2222		
9		0125	1.5E	24		0146	1.1E
F	0423	0642	1.0F	Sa	0459	0716	0.6F
	0941	1326	1.7E		1002	1344	1.2E
	1628	1910	1.4F		1653	1941	0.9F
	2249				2254		
10		0214	1.6E	25		0216	1.2E
Sa	0511	0739	1.1F	Su	0531	0758	0.6F
	1041	1421	1.8E		1048	1423	1.2E
	1721	2005	1.4F		1731	2018	0.9F
	2335				2327		
11		0300	1.7E	26		0246	1.3E
Su	0600	0833	1.1F	M	0604	0836	0.7F
	1140	1512	1.7E		1132	1501	1.3E
	1816	2056	1.3F		1811	2055	0.9F
12	0020	0345	1.7E	27	0000	0319	1.3E
M	0650	0924	1.2F	Tu	0639	0910	0.8F
	1237	1603	1.6E		1216	1540	1.2E
	1912	2145	1.2F		1855	2130	0.9F
13	0104	0431	1.6E	28	0032	0354	1.3E
Tu	0740	1014	1.1F	W	0713	0945	0.8F
	1332	1658	1.5E		1300	1624	1.2E
	2009	2235	1.0F		1940	2209	0.8F
14	0147	0521	1.4E	29	0105	0435	1.3E
W	0830	1106	1.1F	Th	0751	1023	0.9F
	1426	1759	1.3E		1344	1714	1.1E
	2108	2329	0.8F		2029	2252	0.7F
15	0228	0615	1.3E	30	0138	0522	1.3E
Th	0921	1201	0.9F	F	0833	1107	0.9F
	1523	1859	1.2E		1431	1812	1.1E
	2210				2122	2341	0.6F
				31	0215	0615	1.2E
				Sa	0921	1158	0.9F
					1528	1909	1.0E
					2221		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1991

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 *		0033	0.5F	16		0139	0.3F
Su	0300	0709	1.2E	M	0407	0813	0.9E
	1019	1253	0.8F		1150	1424	0.5F
	1640	2009	1.0E		1755	2132	0.7E
	2326						
2		0129	0.5F	17	0053	0246	0.3F
M	0402	0806	1.2E	Tu	0512	0918	0.9E
	1121	1354	0.8F		1252	1551	0.5F
	1752	2118	1.0E		1852	2232	0.7E
3	0029	0235	0.5F	18	0151	0402	0.3F
Tu	0516	0912	1.2E	W	0614	1020	0.9E
	1228	1508	0.8F		1349	1644	0.6F
	1857	2225	1.1E		1941	2315	0.8E
4	0130	0347	0.6F	19	0238	0452	0.4F
W	0628	1021	1.3E	Th	0711	1108	1.0E
	1331	1618	1.0F		1436	1719	0.7F
	1956	2322	1.2E		2022	2349	0.9E
5	0227	0447	0.7F	20	0313	0529	0.5F
Th	0736	1122	1.5E	F	0807	1150	1.1E
	1432	1713	1.1F		1516	1752	0.7F
	2050				2059		
6		0014	1.4E	21		0021	1.0E
F	0317	0538	0.9F	Sa	0344	0604	0.6F
	0841	1220	1.6E		0858	1233	1.1E
	1529	1803	1.1F		1551	1826	0.8F
	2139				2134		
7		0104	1.5E	22		0055	1.2E
Sa	0401	0628	1.1F	Su	0412	0640	0.7F
	0940	1317	1.7E		0945	1316	1.2E
	1620	1854	1.2F		1629	1903	0.8F
	2224				2207		
8		0152	1.6E	23		0130	1.3E
Su	0448	0720	1.2F	M	0442	0717	0.8F
	1035	1410	1.7E		1028	1359	1.3E
	1711	1946	1.2F		1708	1943	0.9F
	2307				2241		
9		0236	1.6E	24		0207	1.4E
M	0531	0811	1.2F	Tu	0515	0756	0.9F
	1127	1459	1.7E		1111	1439	1.4E
	1804	2036	1.1F		1749	2023	0.9F
	2349				2317		
10		0317	1.6E	25		0245	1.4E
Tu	0618	0858	1.2F	W	0550	0833	1.0F
	1218	1545	1.6E		1153	1520	1.4E
	1858	2123	1.0F		1835	2103	0.8F
					2354		
11	0031	0359	1.5E	26		0323	1.4E
W	0705	0944	1.2F	Th	0630	0912	1.1F
	1307	1634	1.5E		1237	1604	1.3E
	1951	2210	0.9F		1922	2143	0.8F
12	0111	0443	1.3E	27	0033	0406	1.4E
Th	0753	1031	1.1F	F	0715	0953	1.1F
	1355	1730	1.3E		1323	1654	1.3E
	2046	2300	0.7F		2012	2228	0.7F
13	0151	0534	1.2E	28	0114	0456	1.3E
F	0844	1123	0.9F	Sa	0803	1040	1.0F
	1444	1828	1.1E		1412	1753	1.2E
	2142	2353	0.6F		2106	2321	0.6F
14	0230	0627	1.0E	29	0159	0553	1.3E
Sa	0940	1219	0.8F	Su	0859	1135	0.9F
	1541	1924	0.9E		1509	1854	1.1E
	2245				2206		
15		0044	0.4F	30		0018	0.6F
Su	0313	0719	0.9E	M	0253	0654	1.2E
	1043	1316	0.6F		1000	1236	0.9F
	1649	2023	0.8E		1620	1955	1.1E
	2350				2310		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0118	0.6F	16	0011	0207	0.3F
Tu	0406	0757	1.2E	W	0441	0829	0.8E
	1110	1339	0.8F		1211	1449	0.5F
	1734	2102	1.1E		1755	2128	0.7E
2	0013	0225	0.6F	17	0104	0324	0.3F
W	0526	0906	1.2E	Th	0551	0936	0.8E
	1220	1454	0.8F		1309	1556	0.5F
	1837	2207	1.2E		1841	2215	0.8E
3	0112	0340	0.7F	18	0149	0422	0.4F
Th	0638	1017	1.3E	F	0652	1033	0.9E
	1328	1609	0.8F		1359	1640	0.6F
	1934	2304	1.3E		1921	2253	0.9E
4	0208	0441	0.8F	19	0223	0459	0.6F
F	0744	1119	1.4E	Sa	0747	1119	1.0E
	1429	1704	0.9F		1444	1715	0.6F
	2026	2354	1.4E		2001	2328	1.1E
5	0256	0528	1.0F	20	0254	0531	0.7F
Sa	0844	1215	1.5E	Su	0837	1202	1.1E
	1525	1751	0.9F		1525	1748	0.7F
	2113				2040		
6		0042	1.4E	21		0005	1.2E
Su	0340	0613	1.1F	M	0326	0603	0.9F
	0938	1309	1.6E		0922	1247	1.2E
	1616	1839	1.0F		1604	1825	0.8F
	2156				2119		
7		0128	1.5E	22		0046	1.3E
M	0421	0659	1.2F	Tu	0358	0638	1.0F
	1027	1400	1.6E		1005	1333	1.4E
	1705	1928	0.9F		1645	1907	0.8F
	2237				2158		
8		0211	1.5E	23		0130	1.4E
Tu	0503	0746	1.2F	W	0433	0718	1.2F
	1111	1446	1.6E		1048	1417	1.5E
	1753	2016	0.9F		1728	1951	0.8F
	2317				2239		
9		0251	1.4E	24		0214	1.5E
W	0547	0831	1.2F	Th	0512	0801	1.2F
	1157	1528	1.5E		1131	1500	1.5E
	1843	2101	0.8F		1813	2036	0.9F
	2357				2321		
10		0329	1.3E	25		0258	1.5E
Th	0631	0915	1.1F	F	0559	0845	1.3F
	1240	1611	1.4E		1218	1545	1.5E
	1933	2145	0.7F		1902	2121	0.8F
11	0036	0408	1.2E	26	0008	0343	1.5E
F	0720	0959	1.0F	Sa	0649	0931	1.2F
	1325	1658	1.2E		1307	1635	1.4E
	2022	2231	0.6F		1954	2209	0.8F
12	0115	0452	1.1E	27	0057	0435	1.4E
Sa	0810	1048	0.9F	Su	0742	1022	1.1F
	1410	1752	1.0E		1358	1734	1.3E
	2114	2321	0.5F		2048	2304	0.7F
13	0153	0545	1.0E	28	0151	0536	1.3E
Su	0904	1144	0.7F	M	0840	1119	1.0F
	1459	1846	0.9E		1454	1837	1.2E
	2210				2148		
14		0013	0.4F	29		0005	0.7F
M	0235	0639	0.9E	Tu	0254	0642	1.3E
	1004	1240	0.6F		0947	1221	0.9F
	1558	1938	0.8E		1559	1938	1.2E
	2311				2250		
15		0108	0.3F	30		0108	0.7F
Tu	0327	0732	0.8E	W	0412	0748	1.2E
	1109	1339	0.5F		1058	1325	0.8F
	1701	2029	0.7E		1708	2040	1.2E
					2352		
				31		0215	0.7F
				Th	0532	0859	1.2E
					1210	1438	0.7F
					1810	2145	1.2E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 300° True E-Ebb, Dir. 129° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0050	0331	0.8F
	0642	1012	1.3E
	1321	1558	0.7F
	1905	2242	1.3E
2 Sa	0144	0432	0.9F
	0745	1113	1.3E
	1427	1656	0.7F
	1957	2332	1.3E
3 Su	0232	0518	1.0F
	0841	1208	1.4E
	1522	1741	0.7F
	2046		
4 M		0020	1.3E
	0318	0559	1.1F
	0931	1301	1.5E
	1611	1824	0.7F
	2129		
5 Tu		0105	1.3E
	0359	0640	1.2F
	1016	1349	1.5E
	1659	1911	0.7F
	2210		
6 W		0149	1.3E
	0440	0724	1.2F
	1057	1433	1.5E
	1742	1957	0.7F
	2248		
7 Th		0229	1.3E
	0521	0808	1.1F
	1138	1512	1.4E
	1829	2040	0.7F
	2325		
8 F		0304	1.2E
	0606	0852	1.1F
	1219	1550	1.3E
	1913	2122	0.6F
9 Sa	0003	0340	1.2E
	0652	0935	1.0F
	1300	1629	1.1E
	1959	2204	0.6F
10 Su	0041	0417	1.1E
	0741	1019	0.9F
	1341	1713	1.0E
	2046	2250	0.5F
11 M	0121	0503	1.0E
	0830	1110	0.7F
	1423	1803	0.9E
	2135	2342	0.4F
12 Tu	0204	0557	0.9E
	0922	1204	0.6F
	1507	1849	0.8E
	2229		
13 W		0036	0.4F
	0256	0652	0.8E
	1020	1256	0.5F
	1557	1931	0.8E
	2321		
14 Th		0129	0.3F
	0409	0745	0.8E
	1121	1349	0.5F
	1648	2015	0.8E
15 F	0009	0229	0.4F
	0525	0845	0.8E
	1221	1450	0.4F
	1735	2104	0.9E
16 Sa	0049	0334	0.5F
	0627	0952	0.8E
	1319	1550	0.4F
	1818	2154	1.0E
17 Su	0126	0417	0.6F
	0720	1046	0.9E
	1410	1634	0.5F
	1901	2240	1.1E
18 M	0201	0453	0.8F
	0810	1133	1.1E
	1458	1713	0.6F
	1946	2324	1.3E
19 Tu	0239	0527	1.0F
	0858	1220	1.3E
	1540	1753	0.7F
	2032		
20 W		0009	1.4E
	0319	0604	1.2F
	0941	1307	1.4E
	1621	1834	0.8F
	2120		
21 Th		0058	1.5E
	0401	0647	1.3F
	1026	1355	1.5E
	1706	1923	0.8F
	2208		
22 F		0148	1.6E
	0447	0735	1.4F
	1112	1442	1.6E
	1751	2012	0.9F
	2257		
23 Sa		0237	1.6E
	0536	0825	1.4F
	1201	1528	1.6E
	1841	2102	0.9F
	2349		
24 Su		0326	1.6E
	0629	0915	1.4F
	1252	1617	1.6E
	1933	2152	0.9F
25 M	0046	0419	1.6E
	0727	1007	1.3F
	1342	1714	1.5E
	2028	2247	0.9F
26 Tu	0146	0521	1.4E
	0827	1103	1.1F
	1435	1815	1.4E
	2124	2350	0.8F
27 W	0251	0628	1.3E
	0930	1205	0.9F
	1530	1914	1.3E
	2223		
28 Th		0052	0.8F
	0408	0735	1.2E
	1042	1307	0.8F
	1633	2012	1.3E
	2325		
29 F		0155	0.8F
	0526	0846	1.2E
	1159	1414	0.6F
	1735	2115	1.2E
30 Sa	0022	0309	0.8F
	0635	1000	1.2E
	1313	1539	0.5F
	1833	2217	1.2E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0118	0417	0.9F
	0737	1103	1.3E
	1422	1646	0.5F
	1927	2310	1.2E
2 M	0210	0505	1.0F
	0832	1159	1.3E
	1520	1732	0.6F
	2019		
3 Tu		0000	1.2E
	0258	0545	1.0F
	0921	1251	1.4E
	1609	1813	0.6F
	2105		
4 W		0046	1.2E
	0341	0624	1.0F
	1004	1338	1.4E
	1650	1855	0.6F
	2146		
5 Th		0130	1.2E
	0422	0707	1.0F
	1044	1420	1.4E
	1730	1939	0.6F
	2223		
6 F		0209	1.2E
	0504	0751	1.0F
	1123	1457	1.3E
	1811	2021	0.6F
	2259		
7 Sa		0244	1.2E
	0547	0834	1.0F
	1201	1530	1.2E
	1852	2101	0.6F
	2337		
8 Su		0317	1.2E
	0630	0915	0.9F
	1239	1603	1.1E
	1933	2141	0.6F
9 M	0017	0352	1.1E
	0715	0956	0.9F
	1316	1636	1.1E
	2015	2223	0.5F
10 Tu	0059	0431	1.0E
	0759	1039	0.8F
	1350	1716	1.0E
	2057	2309	0.5F
11 W	0143	0520	0.9E
	0844	1124	0.7F
	1423	1800	1.0E
	2140	2359	0.4F
12 Th	0232	0614	0.8E
	0933	1212	0.6F
	1457	1842	1.0E
	2223		
13 F		0046	0.4F
	0334	0708	0.8E
	1030	1258	0.5F
	1533	1924	1.0E
	2307		
14 Sa		0131	0.5F
	0448	0802	0.7E
	1134	1346	0.4F
	1619	2009	1.0E
	2348		
15 Su		0222	0.5F
	0551	0906	0.8E
	1238	1446	0.4F
	1710	2100	1.0E
16 M	0029	0318	0.7F
	0646	1010	0.9E
	1338	1549	0.4F
	1804	2155	1.1E
17 Tu	0112	0409	0.8F
	0738	1105	1.1E
	1430	1639	0.5F
	1858	2249	1.2E
18 W	0200	0454	1.0F
	0830	1154	1.2E
	1517	1724	0.6F
	1954	2340	1.4E
19 Th	0249	0537	1.2F
	0919	1245	1.4E
	1600	1809	0.8F
	2050		
20 F		0033	1.5E
	0339	0624	1.4F
	1008	1336	1.5E
	1643	1859	0.9F
	2146		
21 Sa		0128	1.7E
	0429	0715	1.4F
	1056	1424	1.6E
	1729	1952	1.0F
	2241		
22 Su		0221	1.7E
	0520	0809	1.5F
	1145	1511	1.7E
	1819	2044	1.1F
	2338		
23 M		0312	1.8E
	0614	0900	1.4F
	1234	1558	1.7E
	1910	2135	1.1F
24 Tu	0037	0405	1.7E
	0711	0951	1.3F
	1321	1650	1.6E
	2001	2229	1.1F
25 W	0138	0504	1.5E
	0811	1046	1.2F
	1409	1747	1.5E
	2055	2328	1.0F
26 Th	0241	0611	1.4E
	0914	1145	0.9F
	1458	1845	1.4E
	2151		
27 F		0028	1.0F
	0350	0718	1.3E
	1025	1245	0.7F
	1552	1941	1.3E
	2250		
28 Sa		0127	0.9F
	0505	0826	1.2E
	1141	1348	0.5F
	1655	2041	1.2E
	2350		
29 Su		0233	0.8F
	0614	0940	1.1E
	1300	1510	0.4F
	1757	2147	1.1E
30 M	0049	0352	0.8F
	0718	1048	1.2E
	1414	1633	0.4F
	1857	2248	1.1E
31 Tu	0148	0450	0.9F
	0816	1145	1.2E
	1514	1724	0.4F
	1953	2340	1.1E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0300	0523	0.5F
Tu	0755	1051	0.7E
	1330	1714	1.3F
	2042		
2		0001	1.2E
W	0339	0614	0.7F
	0856	1150	0.7E
	1430	1806	1.2F
	2127		
3		0045	1.2E
Th	0417	0702	0.8F
	0957	1248	0.7E
	1532	1855	1.1F
	2210		
4		0130	1.1E
F	0456	0751	0.8F
	1058	1348	0.7E
	1636	1951	0.9F
	2254		
5		0215	1.0E
Sa	0535	0840	0.9F
	1159	1448	0.7E
	1743	2045	0.7F
	2338		
6		0300	1.0E
Su	0616	0933	1.0F
	1301	1551	0.7E
	1856	2141	0.6F
7	0024	0348	0.9E
M	0658	1024	1.0F
	1401	1657	0.7E
	2012	2243	0.4F
8	0112	0436	0.8E
Tu	0742	1120	1.0F
	1500	1758	0.7E
	2131	2349	0.3F
9	0204	0527	0.7E
W	0827	1212	1.0F
	1555	1901	0.8E
	2246		
10		0052	0.3F
Th	0302	0621	0.6E
	0913	1306	1.1F
	1647	2001	0.8E
	2351		
11		0155	0.3F
F	0403	0715	0.6E
	0959	1354	1.1F
	1734	2052	0.9E
12	0047	0252	0.3F
Sa	0505	0808	0.5E
	1045	1443	1.1F
	1818	2139	0.9E
13	0134	0344	0.3F
Su	0604	0901	0.5E
	1132	1527	1.1F
	1900	2222	1.0E
14	0214	0429	0.4F
M	0657	0948	0.5E
	1217	1608	1.1F
	1939	2301	1.0E
15	0250	0510	0.5F
Tu	0747	1032	0.5E
	1303	1650	1.1F
	2017	2340	1.0E
16	0324	0553	0.5F
W	0834	1120	0.5E
	1350	1731	1.0F
	2054		
17		0015	1.0E
Th	0354	0629	0.6F
	0919	1204	0.5E
	1438	1813	1.0F
	2130		
18		0049	1.0E
F	0423	0707	0.6F
	1004	1248	0.6E
	1529	1854	0.9F
	2204		
19		0123	0.9E
Sa	0450	0744	0.7F
	1051	1336	0.6E
	1624	1937	0.7F
	2238		
20		0158	0.9E
Su	0517	0821	0.8F
	1141	1429	0.6E
	1725	2022	0.6F
	2312		
21		0233	0.8E
M	0546	0906	0.8F
	1233	1526	0.6E
	1832	2109	0.5F
	2346		
22		0310	0.7E
Tu	0618	0951	0.9F
	1328	1624	0.6E
	1949	2206	0.3F
23	0024	0351	0.7E
W	0655	1038	1.0F
	1426	1727	0.7E
		2308	*
24		0440	0.6E
Th	0739	1133	1.1F
	1523	1834	0.7E
25		0015	*
F		0539	0.6E
	0829	1230	1.1F
	1619	1935	0.8E
26		0123	*
Sa		0639	0.6E
	0926	1327	1.2F
	1713	2032	0.9E
27	0026	0223	0.3F
Su	0429	0744	0.6E
	1027	1424	1.2F
	1804	2121	1.0E
28	0108	0320	0.4F
M	0541	0847	0.7E
	1130	1520	1.2F
	1852	2206	1.1E
29	0146	0413	0.5F
Tu	0646	0947	0.7E
	1233	1611	1.2F
	1938	2253	1.1E
30	0223	0459	0.7F
W	0747	1047	0.8E
	1334	1702	1.1F
	2022	2336	1.1E
31	0259	0548	0.8F
Th	0845	1142	0.8E
	1433	1753	1.1F
	2104		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0019	1.1E
F	0336	0635	0.9F
	0941	1236	0.8E
	1533	1842	0.9F
	2146		
2		0101	1.0E
Sa	0414	0720	1.0F
	1036	1331	0.8E
	1633	1931	0.8F
	2227		
3		0143	1.0E
Su	0453	0808	1.0F
	1131	1426	0.8E
	1734	2021	0.7F
	2309		
4		0225	0.9E
M	0533	0857	1.0F
	1227	1522	0.7E
	1840	2115	0.5F
	2352		
5		0309	0.8E
Tu	0615	0948	1.0F
	1324	1624	0.7E
	1950	2213	0.4F
6	0039	0358	0.7E
W	0659	1039	1.0F
	1421	1727	0.7E
	2103	2317	0.3F
7	0132	0452	0.6E
Th	0746	1135	1.0F
	1516	1827	0.7E
	2215		
8		0021	0.3F
F	0234	0549	0.5E
	0836	1227	1.0F
	1610	1924	0.8E
	2318		
9		0127	0.3F
Sa	0340	0650	0.5E
	0929	1322	1.0F
	1700	2019	0.8E
10	0010	0226	0.3F
Su	0445	0745	0.5E
	1022	1413	1.0F
	1746	2108	0.9E
11	0053	0315	0.4F
M	0544	0837	0.5E
	1114	1500	1.0F
	1829	2149	0.9E
12	0130	0357	0.5F
Tu	0635	0929	0.6E
	1206	1544	1.0F
	1910	2227	1.0E
13	0203	0437	0.6F
W	0722	1015	0.6E
	1256	1627	1.0F
	1949	2306	1.0E
14	0232	0514	0.6F
Th	0806	1058	0.7E
	1346	1710	0.9F
	2025	2338	0.9E
15	0300	0550	0.7F
F	0849	1145	0.7E
	1436	1751	0.9F
	2100		
16		0011	0.9E
Sa	0327	0625	0.8F
	0932	1230	0.7E
	1528	1833	0.8F
	2134		
17		0044	0.9E
Su	0353	0705	0.9F
	1019	1317	0.7E
	1623	1914	0.7F
	2207		
18		0117	0.8E
M	0422	0742	0.9F
	1106	1406	0.8E
	1721	1959	0.5F
	2240		
19		0156	0.7E
Tu	0454	0823	1.0F
	1157	1457	0.7E
	1826	2051	0.4F
	2316		
20		0235	0.7E
W	0531	0910	1.0F
	1252	1558	0.7E
	1937	2146	0.3F
	2358		
21		0320	0.6E
Th	0615	1005	1.0F
	1351	1701	0.8E
		2247	*
22		0414	0.6E
F	0708	1105	1.0F
	1451	1804	0.8E
		2356	*
23		0523	0.6E
Sa	0810	1208	1.0F
	1551	1906	0.8E
	2256		
24		0103	0.3F
Su	0319	0631	0.6E
	0918	1311	1.1F
	1647	2001	0.9E
	2343		
25		0204	0.4F
M	0434	0742	0.6E
	1029	1412	1.1F
	1740	2054	0.9E
26	0023	0259	0.6F
Tu	0542	0846	0.7E
	1137	1508	1.1F
	1829	2142	1.0E
27	0102	0350	0.7F
W	0642	0945	0.8E
	1241	1600	1.0F
	1915	2225	1.0E
28	0139	0434	0.9F
Th	0737	1039	0.9E
	1341	1652	1.0F
	1959	2305	1.0E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0216	0521	1.0F
	0829	1133	0.9E
	1438	1740	0.9F
	2041	2347	1.0E
2 Sa	0253	0605	1.0F
	0919	1223	0.9E
	1533	1826	0.8F
	2121		
3 Su		0029	0.9E
	0330	0649	1.1F
	1009	1312	0.9E
	1628	1912	0.7F
	2201		
4 M		0110	0.8E
	0409	0733	1.1F
	1059	1404	0.9E
	1725	2001	0.6F
	2243		
5 Tu		0153	0.7E
	0448	0818	1.0F
	1149	1456	0.8E
	1823	2053	0.5F
	2327		
6 W		0237	0.7E
	0530	0907	1.0F
	1241	1551	0.8E
	1926	2147	0.4F
7 Th	0017	0326	0.6E
	0615	0959	0.9F
	1335	1647	0.7E
	2031	2247	0.3F
8 F	0114	0420	0.5E
	0706	1052	0.9F
	1430	1748	0.7E
	2135	2353	0.3F
9 Sa	0220	0520	0.4E
	0802	1150	0.8F
	1525	1845	0.7E
	2231		
10 Su		0056	0.3F
	0328	0624	0.4E
	0902	1250	0.8F
	1617	1938	0.8E
	2318		
11 M		0147	0.4F
	0430	0723	0.5E
	1003	1345	0.8F
	1706	2024	0.8E
	2358		
12 Tu		0236	0.5F
	0524	0817	0.5E
	1102	1434	0.9F
	1752	2107	0.8E
13 W	0033	0318	0.6F
	0612	0909	0.6E
	1158	1521	0.9F
	1834	2146	0.9E
14 Th	0104	0357	0.7F
	0656	0957	0.7E
	1252	1605	0.8F
	1914	2221	0.9E
15 F	0132	0434	0.8F
	0738	1041	0.8E
	1344	1648	0.8F
	1951	2256	0.8E
16 Sa	0200	0510	0.9F
	0820	1127	0.9E
	1436	1731	0.7F
	2027	2330	0.8E
17 Su	0228	0545	1.0F
	0902	1210	0.9E
	1528	1811	0.7F
	2101		
18 M		0003	0.8E
	0257	0624	1.0F
	0947	1254	0.9E
	1622	1855	0.6F
	2136		
19 Tu		0040	0.7E
	0330	0703	1.1F
	1035	1344	0.9E
	1719	1943	0.5F
	2214		
20 W		0121	0.7E
	0409	0750	1.1F
	1125	1438	0.9E
	1818	2034	0.4F
	2257		
21 Th		0205	0.6E
	0453	0839	1.1F
	1219	1533	0.9E
	1920	2131	0.3F
	2351		
22 F		0300	0.6E
	0546	0937	1.0F
	1317	1633	0.8E
	2021	2235	0.3F
23 Sa	0058	0407	0.5E
	0650	1040	1.0F
	1417	1736	0.8E
	2118	2343	0.4F
24 Su	0214	0516	0.5E
	0803	1145	0.9F
	1517	1833	0.8E
	2208		
25 M		0044	0.5F
	0330	0633	0.6E
	0921	1253	0.9F
	1616	1929	0.8E
	2253		
26 Tu		0142	0.6F
	0439	0742	0.7E
	1037	1357	0.9F
	1710	2022	0.9E
	2335		
27 W		0237	0.8F
	0539	0843	0.8E
	1147	1456	0.8F
	1801	2108	0.9E
28 Th	0014	0326	0.9F
	0633	0939	0.9E
	1250	1549	0.8F
	1848	2152	0.9E
29 F	0053	0409	1.0F
	0724	1032	1.0E
	1348	1637	0.8F
	1932	2235	0.9E
30 Sa	0131	0454	1.1F
	0811	1121	1.0E
	1442	1726	0.7F
	2015	2315	0.8E
31 Su	0208	0536	1.1F
	0857	1208	1.0E
	1533	1812	0.6F
	2056	2356	0.8E

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M	0246	0617	1.1F
	0942	1254	1.0E
	1624	1855	0.6F
	2138		
2 Tu		0038	0.7E
	0324	0658	1.1F
	1026	1339	0.9E
	1715	1944	0.5F
	2222		
3 W		0120	0.6E
	0403	0742	1.0F
	1111	1424	0.9E
	1808	2035	0.4F
	2310		
4 Th		0206	0.5E
	0446	0828	0.9F
	1158	1517	0.8E
	1902	2125	0.4F
5 F	0004	0254	0.5E
	0532	0918	0.8F
	1248	1608	0.8E
	1957	2225	0.4F
6 Sa	0105	0354	0.4E
	0627	1013	0.8F
	1340	1703	0.8E
	2049	2322	0.4F
7 Su	0211	0454	0.4E
	0729	1110	0.7F
	1433	1759	0.8E
	2137		
8 M		0019	0.4F
	0314	0600	0.4E
	0838	1211	0.7F
	1527	1849	0.8E
	2219		
9 Tu		0113	0.5F
	0411	0700	0.5E
	0947	1307	0.7F
	1618	1935	0.8E
	2256		
10 W		0156	0.6F
	0501	0758	0.6E
	1052	1402	0.7F
	1706	2017	0.8E
	2329		
11 Th		0236	0.7F
	0546	0849	0.7E
	1153	1452	0.7F
	1751	2058	0.8E
12 F	0000	0314	0.9F
	0629	0933	0.8E
	1249	1539	0.7F
	1832	2134	0.7E
13 Sa	0030	0353	1.0F
	0711	1021	0.9E
	1344	1624	0.6F
	1911	2212	0.7E
14 Su	0100	0431	1.1F
	0753	1104	1.0E
	1436	1707	0.6F
	1949	2249	0.7E
15 M	0133	0510	1.2F
	0836	1152	1.0E
	1528	1754	0.5F
	2028	2325	0.7E
16 Tu	0208	0549	1.2F
	0921	1235	1.1E
	1620	1839	0.5F
	2110		
17 W		0008	0.7E
	0249	0635	1.2F
	1008	1324	1.1E
	1712	1929	0.5F
	2156		
18 Th		0055	0.6E
	0334	0722	1.2F
	1057	1415	1.0E
	1804	2024	0.4F
	2251		
19 F		0146	0.6E
	0427	0815	1.1F
	1149	1507	1.0E
	1855	2120	0.5F
	2356		
20 Sa		0251	0.5E
	0530	0914	1.0F
	1244	1604	0.9E
	1946	2221	0.5F
21 Su	0108	0359	0.5E
	0643	1017	0.9F
	1341	1702	0.9E
	2034	2325	0.6F
22 M	0223	0516	0.6E
	0804	1127	0.8F
	1440	1759	0.8E
	2120		
23 Tu		0024	0.7F
	0332	0630	0.6E
	0927	1234	0.7F
	1538	1854	0.8E
	2205		
24 W		0119	0.8F
	0434	0734	0.8E
	1045	1342	0.7F
	1634	1945	0.8E
	2247		
25 Th		0210	1.0F
	0530	0836	0.9E
	1154	1440	0.6F
	1726	2033	0.8E
	2329		
26 F		0257	1.1F
	0620	0930	1.0E
	1256	1533	0.6F
	1816	2118	0.8E
27 Sa	0009	0343	1.1F
	0707	1021	1.0E
	1352	1622	0.6F
	1903	2203	0.7E
28 Su	0048	0424	1.2F
	0752	1107	1.1E
	1443	1711	0.6F
	1948	2243	0.7E
29 M	0126	0505	1.2F
	0834	1150	1.1E
	1532	1756	0.5F
	2033	2324	0.6E
30 Tu	0204	0547	1.1F
	0916	1235	1.0E
	1619	1844	0.5F
	2119		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0008	0.6E
W	0243	0627	1.1F
	0956	1317	1.0E
	1705	1929	0.5F
	2207		
2		0051	0.5E
Th	0323	0709	1.0F
	1037	1359	1.0E
	1750	2016	0.4F
	2258		
3		0137	0.4E
F	0406	0752	0.9F
	1120	1446	0.9E
	1836	2107	0.4F
	2355		
4		0229	0.4E
Sa	0455	0839	0.8F
	1204	1532	0.9E
	1920	2155	0.5F
5	0055	0329	0.4E
Su	0553	0935	0.7F
	1251	1621	0.8E
	2002	2250	0.5F
6	0155	0429	0.4E
M	0700	1030	0.6F
	1340	1709	0.8E
	2042	2339	0.6F
7	0253	0535	0.4E
Tu	0815	1131	0.6F
	1431	1757	0.7E
	2118		
8		0027	0.7F
W	0346	0635	0.5E
	0930	1228	0.5F
	1521	1840	0.7E
	2152		
9		0111	0.8F
Th	0434	0732	0.6E
	1042	1325	0.5F
	1610	1922	0.7E
	2225		
10		0153	0.9F
F	0519	0825	0.8E
	1148	1419	0.5F
	1657	2007	0.7E
	2258		
11		0234	1.0F
Sa	0603	0914	0.9E
	1248	1511	0.5F
	1742	2045	0.7E
	2332		
12		0315	1.1F
Su	0646	1003	1.0E
	1343	1600	0.5F
	1826	2128	0.7E
13	0009	0357	1.2F
M	0730	1045	1.1E
	1435	1648	0.4F
	1911	2211	0.7E
14	0048	0440	1.3F
Tu	0814	1133	1.1E
	1523	1737	0.4F
	1958	2254	0.6E
15	0132	0525	1.3F
W	0859	1216	1.2E
	1610	1825	0.5F
	2050	2345	0.6E
16	0220	0610	1.3F
Th	0945	1304	1.1E
	1655	1914	0.5F
	2147		
17		0036	0.6E
F	0314	0703	1.2F
	1032	1353	1.1E
	1739	2006	0.5F
	2249		
18		0138	0.6E
Sa	0414	0757	1.1F
	1121	1442	1.1E
	1823	2101	0.6F
	2358		
19		0245	0.6E
Su	0523	0854	0.9F
	1212	1535	1.0E
	1907	2202	0.7F
20	0108	0354	0.6E
M	0640	0958	0.8F
	1305	1623	0.9E
	1951	2258	0.8F
21	0217	0508	0.6E
Tu	0803	1105	0.7F
	1400	1723	0.9E
	2036	2355	0.9F
22	0321	0620	0.7E
W	0927	1214	0.6F
	1456	1815	0.8E
	2120		
23		0050	1.0F
Th	0420	0723	0.8E
	1046	1318	0.5F
	1552	1908	0.8E
	2204		
24		0141	1.1F
F	0514	0823	0.9E
	1155	1419	0.5F
	1648	1957	0.7E
	2247		
25		0229	1.2F
Sa	0603	0918	1.0E
	1257	1515	0.4F
	1742	2045	0.7E
	2329		
26		0315	1.2F
Su	0649	1003	1.0E
	1351	1608	0.4F
	1833	2131	0.6E
27	0010	0358	1.2F
M	0732	1050	1.1E
	1440	1657	0.4F
	1923	2216	0.6E
28	0050	0441	1.2F
Tu	0812	1133	1.1E
	1525	1744	0.4F
	2013	2300	0.5E
29	0130	0520	1.1F
W	0851	1214	1.1E
	1607	1827	0.4F
	2102	2343	0.5E
30	0210	0601	1.1F
Th	0930	1255	1.0E
	1647	1910	0.5F
	2152		
31		0029	0.4E
F	0253	0642	1.0F
	1008	1333	1.0E
	1725	1955	0.5F
	2244		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0115	0.4E
Sa	0338	0724	0.9F
	1047	1415	1.0E
	1803	2039	0.5F
	2337		
2		0208	0.4E
Su	0430	0809	0.8F
	1126	1456	0.9E
	1838	2123	0.5F
3	0032	0301	0.4E
M	0529	0856	0.7F
	1208	1538	0.8E
	1913	2210	0.6F
4	0127	0401	0.4E
Tu	0637	0951	0.6F
	1251	1620	0.8E
	1946	2254	0.7F
5	0222	0505	0.5E
W	0754	1048	0.5F
	1335	1705	0.7E
	2018	2342	0.8F
6	0314	0608	0.5E
Th	0914	1148	0.4F
	1421	1748	0.7E
	2052		
7		0025	0.9F
F	0403	0703	0.7E
	1032	1250	0.3F
	1509	1829	0.6E
	2127		
8		0111	1.0F
Sa	0451	0800	0.8E
	1143	1348	0.3F
	1559	1917	0.6E
	2204		
9		0157	1.1F
Su	0538	0854	0.9E
	1245	1443	0.3F
	1650	2006	0.6E
	2246		
10		0243	1.2F
M	0624	0943	1.0E
	1338	1539	0.3F
	1744	2051	0.6E
	2331		
11		0328	1.3F
Tu	0709	1028	1.1E
	1425	1629	0.4F
	1840	2144	0.6E
12	0019	0415	1.3F
W	0754	1113	1.2E
	1507	1718	0.4F
	1937	2235	0.6E
13	0112	0506	1.3F
Th	0839	1159	1.2E
	1547	1807	0.5F
	2037	2331	0.7E
14	0207	0554	1.3F
F	0924	1245	1.2E
	1627	1856	0.6F
	2139		
15		0028	0.7E
Sa	0307	0645	1.2F
	1009	1330	1.1E
	1706	1947	0.7F
	2242		
16		0131	0.6E
Su	0411	0740	1.0F
	1055	1417	1.1E
	1746	2040	0.8F
	2348		
17		0234	0.6E
M	0520	0835	0.9F
	1142	1503	1.0E
	1827	2135	0.9F
18	0053	0342	0.7E
Tu	0636	0936	0.7F
	1230	1555	0.9E
	1910	2227	1.0F
19	0158	0450	0.7E
W	0756	1041	0.6F
	1321	1644	0.8E
	1954	2323	1.0F
20	0300	0559	0.7E
Th	0919	1148	0.4F
	1414	1736	0.8E
	2039		
21		0018	1.1F
F	0358	0703	0.8E
	1037	1253	0.4F
	1511	1830	0.7E
	2125		
22		0112	1.1F
Sa	0452	0804	0.9E
	1148	1357	0.3F
	1610	1925	0.6E
	2211		
23		0202	1.1F
Su	0542	0859	0.9E
	1248	1454	0.3F
	1710	2016	0.6E
	2256		
24		0249	1.2F
M	0627	0946	1.0E
	1340	1549	0.4F
	1807	2105	0.6E
	2340		
25		0334	1.2F
Tu	0710	1032	1.0E
	1425	1638	0.4F
	1902	2153	0.5E
26	0024	0416	1.1F
W	0749	1113	1.1E
	1505	1721	0.4F
	1954	2240	0.5E
27	0107	0459	1.1F
Th	0827	1154	1.1E
	1542	1807	0.5F
	2044	2323	0.5E
28	0151	0537	1.0F
F	0904	1229	1.0E
	1617	1848	0.5F
	2132		
29		0009	0.5E
Sa	0236	0618	1.0F
	0941	1306	1.0E
	1649	1927	0.5F
	2220		
30		0056	0.5E
Su	0324	0659	0.9F
	1017	1341	1.0E
	1720	2007	0.6F
	2308		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0145	0.5E
M	0416	0740	0.8F
	1053	1419	0.9E
	1750	2047	0.7F
	2358		
2		0236	0.5E
Tu	0515	0829	0.7F
	1129	1456	0.8E
	1820	2130	0.7F
3	0050	0330	0.5E
W	0621	0919	0.5F
	1206	1533	0.8E
	1850	2211	0.8F
4	0143	0433	0.5E
Th	0736	1014	0.4F
	1244	1612	0.7E
	1922	2257	0.9F
5	0237	0535	0.6E
F	0858	1109	0.3F
	1325	1656	0.6E
	1957	2343	1.0F
6	0330	0637	0.7E
Sa		1214	*
		1745	0.6E
	2038		
7		0034	1.1F
Su	0423	0734	0.8E
		1319	*
		1836	0.6E
	2124		
8		0125	1.2F
M	0513	0829	0.9E
		1419	*
		1929	0.6E
	2215		
9		0216	1.2F
Tu	0602	0918	1.0E
	1319	1515	0.3F
	1717	2030	0.6E
	2309		
10		0309	1.3F
W	0649	1006	1.1E
	1400	1606	0.4F
	1823	2128	0.7E
11	0007	0359	1.3F
Th	0734	1053	1.1E
	1437	1655	0.5F
	1926	2225	0.7E
12	0106	0448	1.3F
F	0819	1136	1.2E
	1513	1745	0.6F
	2027	2322	0.7E
13	0206	0542	1.2F
Sa	0903	1219	1.2E
	1549	1833	0.8F
	2128		
14		0019	0.8E
Su	0307	0632	1.1F
	0946	1302	1.1E
	1627	1921	0.9F
	2227		
15		0120	0.8E
M	0411	0721	0.9F
	1029	1346	1.1E
	1706	2011	0.9F
	2327		
16		0221	0.8E
Tu	0517	0815	0.8F
	1113	1431	1.0E
	1747	2103	1.0F
17	0028	0322	0.7E
W	0627	0912	0.6F
	1158	1519	0.9E
	1829	2155	1.0F
18	0129	0426	0.7E
Th	0742	1015	0.5F
	1246	1610	0.8E
	1914	2250	1.1F
19	0230	0529	0.7E
F	0901	1121	0.4F
	1338	1702	0.7E
	2001	2345	1.1F
20	0328	0636	0.8E
Sa	1018	1227	0.3F
	1437	1758	0.6E
	2050		
21		0040	1.1F
Su	0423	0737	0.8E
	1127	1332	0.3F
	1541	1854	0.6E
	2140		
22		0133	1.1F
M	0514	0833	0.9E
	1225	1433	0.3F
	1646	1948	0.5E
	2230		
23		0227	1.1F
Tu	0601	0918	0.9E
	1313	1523	0.4F
	1748	2045	0.5E
	2319		
24		0310	1.1F
W	0644	1005	1.0E
	1353	1612	0.4F
	1844	2134	0.5E
25	0007	0355	1.1F
Th	0724	1044	1.0E
	1430	1655	0.5F
	1934	2221	0.5E
26	0055	0437	1.0F
F	0802	1123	1.0E
	1503	1736	0.5F
	2020	2306	0.6E
27	0141	0516	1.0F
Sa	0839	1158	1.0E
	1533	1812	0.6F
	2105	2349	0.6E
28	0229	0558	0.9F
Su	0914	1232	1.0E
	1602	1848	0.7F
	2149		
29		0038	0.6E
M	0318	0639	0.8F
	0948	1307	0.9E
	1629	1927	0.7F
	2233		
30		0121	0.6E
Tu	0411	0720	0.7F
	1022	1340	0.9E
	1657	2005	0.8F
	2320		
31		0210	0.6E
W	0508	0803	0.6F
	1055	1412	0.8E
	1725	2040	0.8F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0010	0303	0.6E
Th	0611	0852	0.5F
	1128	1451	0.7E
	1755	2126	0.9F
2	0103	0401	0.6E
F	0723	0943	0.3F
	1203	1528	0.7E
	1830	2215	1.0F
3	0158	0503	0.7E
Sa		1044	*
		1615	0.6E
	1912	2306	1.0F
4	0256	0604	0.7E
Su		1148	*
		1708	0.6E
	2001		
5		0003	1.1F
M	0352	0707	0.8E
		1254	*
		1813	0.6E
	2058		
6		0100	1.1F
Tu	0446	0803	0.9E
	1200	1355	0.3F
	1558	1916	0.6E
	2200		
7		0156	1.1F
W	0538	0852	0.9E
	1241	1452	0.4F
	1711	2020	0.6E
	2304		
8		0251	1.2F
Th	0627	0941	1.0E
	1319	1544	0.5F
	1818	2121	0.7E
9	0008	0346	1.2F
F	0713	1027	1.1E
	1354	1635	0.7F
	1919	2219	0.8E
10	0110	0437	1.1F
Sa	0757	1109	1.1E
	1430	1718	0.8F
	2016	2316	0.8E
11	0211	0530	1.1F
Su	0840	1151	1.1E
	1507	1806	0.9F
	2112		
12		0011	0.9E
M	0311	0619	1.0F
	0922	1233	1.0E
	1544	1852	1.0F
	2206		
13		0106	0.9E
Tu	0410	0708	0.8F
	1004	1316	1.0E
	1624	1941	1.1F
	2301		
14		0202	0.9E
W	0512	0758	0.7F
	1046	1402	0.9E
	1704	2029	1.1F
	2357		
15		0258	0.8E
Th	0616	0853	0.6F
	1131	1446	0.8E
	1748	2121	1.0F
16	0054	0355	0.8E
F	0724	0950	0.4F
	1219	1535	0.7E
	1834	2214	1.0F
17	0152	0502	0.8E
Sa	0836	1053	0.3F
	1314	1628	0.6E
	1923	2310	1.0F
18	0250	0604	0.8E
Su	0947	1158	0.3F
	1417	1731	0.5E
	2017		
19		0007	0.9F
M	0346	0701	0.8E
	1051	1306	0.3F
	1525	1828	0.5E
	2113		
20		0102	0.9F
Tu	0439	0758	0.8E
	1144	1403	0.4F
	1632	1929	0.5E
	2209		
21		0156	0.9F
W	0527	0845	0.9E
	1228	1452	0.4F
	1731	2026	0.5E
	2305		
22		0245	0.9F
Th	0612	0928	0.9E
	1306	1539	0.5F
	1823	2117	0.6E
	2357		
23		0332	1.0F
F	0653	1009	0.9E
	1340	1620	0.6F
	1910	2203	0.6E
24	0048	0416	0.9F
Sa	0732	1045	0.9E
	1411	1658	0.7F
	1953	2248	0.7E
25	0137	0458	0.9F
Su	0809	1122	0.9E
	1439	1733	0.7F
	2034	2332	0.7E
26	0227	0539	0.8F
M	0844	1153	0.9E
	1506	1808	0.8F
	2116		
27		0016	0.8E
Tu	0317	0620	0.8F
	0918	1227	0.8E
	1532	1842	0.9F
	2159		
28		0100	0.8E
W	0409	0659	0.7F
	0951	1258	0.8E
	1600	1923	0.9F
	2244		
29		0145	0.8E
Th	0505	0744	0.5F
	1023	1333	0.7E
	1630	2000	1.0F
	2332		
30		0237	0.8E
F	0605	0829	0.4F
	1057	1412	0.7E
	1705	2047	1.0F
31	0025	0333	0.8E
Sa	0712	0921	0.3F
	1136	1455	0.6E
	1747	2136	1.0F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0121	0432	0.7E	16	0205	0523	0.8E
Su	0821	1020	0.3F	M	0908	1132	0.4F
	1226	1546	0.6E		1408	1705	0.4E
	1838	2233	1.0F		1945	2331	0.8F
2	0219	0533	0.8E	17	0300	0620	0.8E
M		1126	*	Tu	1003	1233	0.4F
		1648	0.5E		1516	1809	0.4E
	1938	2335	1.0F		2048		
3	0318	0636	0.8E	18		0028	0.8F
Tu	1025	1233	0.3F	W	0354	0713	0.8E
	1448	1801	0.5E		1051	1330	0.5F
	2047				1618	1911	0.5E
					2152		
4		0037	1.0F	19		0124	0.8F
W	0416	0732	0.8E	Th	0444	0804	0.8E
	1111	1335	0.4F		1132	1417	0.5F
	1604	1912	0.6E		1712	2006	0.5E
	2200				2252		
5		0142	1.0F	20		0218	0.8F
Th	0510	0823	0.9E	F	0531	0846	0.8E
	1152	1430	0.6F		1208	1506	0.6F
	1713	2019	0.7E		1800	2057	0.6E
	2310				2349		
6		0239	1.0F	21		0306	0.8F
F	0600	0910	0.9E	Sa	0615	0927	0.8E
	1230	1521	0.7F		1241	1540	0.7F
	1814	2119	0.8E		1843	2144	0.7E
7	0017	0334	1.0F	22	0043	0350	0.8F
Sa	0648	0956	1.0E	Su	0656	1003	0.8E
	1307	1608	0.9F		1310	1616	0.8F
	1910	2215	0.9E		1924	2229	0.8E
8	0119	0426	0.9F	23	0135	0434	0.8F
Su	0732	1037	1.0E	M	0734	1036	0.8E
	1344	1653	1.0F		1339	1653	0.9F
	2002	2308	1.0E		2004	2311	0.9E
9	0217	0515	0.9F	24	0225	0516	0.7F
M	0815	1123	0.9E	Tu	0810	1111	0.8E
	1422	1738	1.1F		1406	1728	1.0F
	2053				2045	2355	0.9E
10		0000	1.0E	25	0316	0557	0.6F
Tu	0314	0604	0.8F	W	0845	1147	0.7E
	0858	1202	0.9E		1435	1803	1.0F
	1501	1822	1.1F		2128		
	2143						
11		0049	1.0E	26		0037	0.9E
W	0409	0652	0.7F	Th	0408	0639	0.5F
	0940	1247	0.8E		0920	1221	0.7E
	1541	1907	1.1F		1507	1844	1.1F
	2233				2212		
12		0141	1.0E	27		0126	0.9E
Th	0506	0741	0.6F	F	0502	0726	0.5F
	1023	1330	0.8E		0956	1258	0.6E
	1622	1953	1.1F		1543	1925	1.1F
	2323				2300		
13		0233	0.9E	28		0215	0.9E
F	0604	0833	0.5F	Sa	0558	0812	0.4F
	1110	1415	0.7E		1037	1339	0.6E
	1706	2044	1.0F		1625	2012	1.1F
					2351		
14	0016	0326	0.8E	29		0304	0.9E
Sa	0704	0927	0.4F	Su	0656	0908	0.3F
	1201	1507	0.6E		1127	1431	0.5E
	1753	2136	0.9F		1715	2105	1.0F
15	0109	0424	0.8E	30	0045	0405	0.8E
Su	0807	1030	0.4F	M	0753	1005	0.3F
	1301	1603	0.5E		1230	1532	0.5E
	1846	2231	0.9F		1816	2207	0.9F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0143	0502	0.8E	16	0208	0535	0.8E
Tu	0846	1112	0.4F	W	0911	1208	0.5F
	1344	1645	0.5E		1502	1743	0.4E
	1928	2312	0.9F		2023	2349	0.7F
2	0242	0602	0.8E	17	0301	0626	0.8E
W	0935	1215	0.5F	Th	0953	1251	0.6F
	1500	1759	0.6E		1558	1846	0.5E
	2048				2133		
3		0021	0.8F	18		0050	0.6F
Th	0340	0656	0.8E	F	0353	0712	0.8E
	1019	1312	0.6F		1031	1335	0.7F
	1609	1913	0.7E		1648	1943	0.6E
	2207				2240		
4		0125	0.8F	19		0145	0.6F
F	0436	0747	0.8E	Sa	0442	0757	0.7E
	1101	1405	0.8F		1106	1420	0.8F
	1711	2016	0.8E		1733	2033	0.7E
	2320				2341		
5		0226	0.8F	20		0236	0.6F
Sa	0529	0836	0.8E	Su	0529	0836	0.7E
	1141	1455	0.9F		1138	1457	0.9F
	1807	2115	0.9E		1815	2122	0.8E
6	0026	0321	0.8F	21	0039	0324	0.6F
Su	0618	0923	0.8E	M	0612	0915	0.7E
	1220	1540	1.1F		1209	1537	1.0F
	1858	2209	1.0E		1856	2205	0.9E
7	0127	0417	0.7F	22	0133	0409	0.6F
M	0704	1006	0.8E	Tu	0652	0951	0.7E
	1300	1626	1.1F		1239	1614	1.1F
	1947	2258	1.1E		1937	2251	1.0E
8	0223	0501	0.7F	23	0225	0454	0.5F
Tu	0749	1051	0.8E	W	0731	1028	0.7E
	1339	1709	1.2F		1311	1651	1.2F
	2033	2347	1.1E		2019	2336	1.0E
9	0316	0550	0.6F	24	0316	0538	0.5F
W	0833	1133	0.8E	Th	0810	1107	0.6E
	1419	1755	1.2F		1345	1730	1.2F
	2119				2102		
10		0030	1.1E	25		0018	1.1E
Th	0408	0638	0.6F	F	0406	0623	0.5F
	0918	1216	0.7E		0850	1146	0.6E
	1459	1836	1.1F		1424	1813	1.2F
	2205				2146		
11		0119	1.0E	26		0107	1.1E
F	0459	0726	0.5F	Sa	0455	0710	0.4F
	1005	1258	0.6E		0936	1232	0.6E
	1541	1922	1.1F		1507	1859	1.2F
	2250				2232		
12		0208	1.0E	27		0152	1.0E
Sa	0550	0818	0.5F	Su	0543	0800	0.4F
	1055	1346	0.5E		1028	1323	0.6E
	1626	2008	1.0F		1558	1946	1.1F
	2337				2321		
13		0257	0.9E	28		0243	1.0E
Su	0642	0909	0.4F	M	0631	0854	0.4F
	1151	1440	0.5E		1129	1418	0.5E
	1714	2057	0.9F		1657	2043	1.0F
14	0025	0351	0.8E	29	0013	0334	0.9E
M	0734	1005	0.4F	Tu	0717	0951	0.5F
	1254	1538	0.4E		1238	1529	0.5E
	1810	2152	0.8F		1807	2144	0.9F
15	0116	0440	0.8E	30	0107	0428	0.9E
Tu	0824	1103	0.4F	W	0802	1048	0.6F
	1359	1640	0.4E		1351	1643	0.5E
	1913	2249	0.7F		1928	2253	0.8F
				31	0203	0524	0.8E
				Th	0847	1150	0.7F
					1501	1756	0.6E
					2052		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

BALTIMORE HARBOR APPROACH (off Sandy Pt.), MARYLAND, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0002	0.7F
	0300	0617	0.8E
	0930	1246	0.8F
	1604	1905	0.7E
	2214		
2 Sa		0106	0.6F
	0357	0711	0.8E
	1013	1340	1.0F
	1702	2006	0.8E
	2328		
3 Su		0209	0.6F
	0452	0801	0.8E
	1056	1427	1.1F
	1755	2103	1.0E
4 M	0034	0306	0.6F
	0544	0849	0.8E
	1138	1515	1.2F
	1844	2158	1.0E
5 Tu	0132	0401	0.6F
	0634	0937	0.7E
	1220	1601	1.2F
	1930	2247	1.1E
6 W	0226	0450	0.5F
	0723	1019	0.7E
	1301	1644	1.2F
	2014	2333	1.1E
7 Th	0316	0538	0.5F
	0811	1105	0.6E
	1342	1727	1.2F
	2057		
8 F		0016	1.1E
	0403	0624	0.5F
	0900	1150	0.6E
	1423	1809	1.1F
	2138		
9 Sa		0059	1.1E
	0448	0712	0.5F
	0951	1235	0.5E
	1506	1852	1.0F
	2220		
10 Su		0142	1.0E
	0533	0801	0.5F
	1044	1324	0.4E
	1551	1939	0.9F
	2301		
11 M		0229	1.0E
	0616	0850	0.5F
	1141	1416	0.4E
	1641	2022	0.8F
	2344		
12 Tu		0312	0.9E
	0658	0939	0.5F
	1241	1513	0.4E
	1738	2113	0.7F
13 W	0029	0401	0.8E
	0739	1028	0.5F
	1341	1612	0.4E
	1844	2207	0.6F
14 Th	0116	0447	0.9E
	0818	1118	0.6F
	1438	1715	0.4E
	1957	2308	0.6F
15 F	0205	0532	0.8E
	0855	1205	0.7F
	1531	1818	0.5E
	2113		
16 Sa		0005	0.5F
	0255	0618	0.7E
	0930	1253	0.8F
	1619	1915	0.6E
	2226		
17 Su		0106	0.5F
	0345	0703	0.7E
	1004	1335	0.9F
	1704	2009	0.7E
	2333		
18 M		0202	0.4F
	0433	0747	0.7E
	1037	1417	1.0F
	1748	2058	0.8E
19 Tu	0036	0254	0.4F
	0520	0829	0.6E
	1111	1454	1.1F
	1830	2146	1.0E
20 W	0131	0343	0.4F
	0605	0908	0.6E
	1147	1537	1.2F
	1913	2229	1.0E
21 Th	0222	0431	0.4F
	0650	0950	0.6E
	1226	1621	1.3F
	1956	2317	1.1E
22 F	0310	0519	0.4F
	0737	1035	0.6E
	1308	1704	1.3F
	2039	2359	1.1E
23 Sa	0354	0605	0.4F
	0827	1122	0.6E
	1355	1747	1.3F
	2123		
24 Su		0045	1.1E
	0436	0654	0.5F
	0922	1213	0.6E
	1447	1836	1.2F
	2208		
25 M		0130	1.1E
	0517	0742	0.5F
	1022	1310	0.6E
	1546	1927	1.1F
	2255		
26 Tu		0217	1.1E
	0557	0837	0.6F
	1128	1412	0.6E
	1651	2024	1.0F
	2343		
27 W		0303	1.0E
	0638	0929	0.7F
	1236	1522	0.6E
	1805	2126	0.8F
28 Th	0032	0354	0.9E
	0720	1023	0.8F
	1344	1634	0.6E
	1927	2229	0.7F
29 F	0124	0448	0.9E
	0803	1123	0.9F
	1449	1743	0.7E
	2053	2338	0.6F
30 Sa	0219	0542	0.8E
	0847	1217	1.0F
	1550	1852	0.8E
	2215		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su		0044	0.5F
	0316	0633	0.8E
	0932	1312	1.1F
	1647	1955	0.9E
	2330		
2 M		0148	0.4F
	0413	0727	0.7E
	1017	1401	1.2F
	1739	2051	1.0E
3 Tu	0035	0249	0.4F
	0510	0817	0.7E
	1102	1449	1.2F
	1827	2144	1.0E
4 W	0132	0344	0.4F
	0606	0908	0.6E
	1146	1538	1.2F
	1912	2229	1.1E
5 Th	0222	0434	0.4F
	0701	0954	0.6E
	1230	1621	1.2F
	1955	2316	1.1E
6 F	0308	0523	0.4F
	0753	1043	0.5E
	1313	1705	1.2F
	2035	2359	1.1E
7 Sa	0350	0610	0.5F
	0845	1131	0.5E
	1356	1745	1.1F
	2114		
8 Su		0040	1.1E
	0429	0654	0.5F
	0937	1215	0.5E
	1441	1827	1.0F
	2152		
9 M		0117	1.0E
	0506	0736	0.5F
	1029	1303	0.4E
	1527	1910	0.9F
	2230		
10 Tu		0157	1.0E
	0542	0821	0.5F
	1122	1355	0.4E
	1618	1956	0.8F
	2309		
11 W		0238	0.9E
	0617	0907	0.6F
	1215	1447	0.4E
	1715	2040	0.7F
	2348		
12 Th		0316	0.9E
	0651	0949	0.6F
	1310	1541	0.4E
	1820	2132	0.6F
13 F	0029	0359	0.8E
	0724	1036	0.7F
	1403	1643	0.5E
	1934	2229	0.5F
14 Sa	0112	0442	0.7E
	0757	1119	0.8F
	1455	1745	0.5E
	2052	2326	0.4F
15 Su	0156	0523	0.7E
	0831	1208	0.9F
	1545	1846	0.6E
	2212		
16 M		0028	0.3F
	0243	0612	0.6E
	0906	1251	1.0F
	1633	1943	0.7E
	2325		
17 Tu		0126	0.3F
	0333	0655	0.6E
	0943	1337	1.1F
	1720	2035	0.9E
18 W	0029	0225	0.3F
	0425	0743	0.6E
	1024	1422	1.2F
	1805	2124	1.0E
19 Th	0124	0318	0.3F
	0520	0832	0.6E
	1108	1507	1.3F
	1850	2210	1.1E
20 F	0210	0408	0.3F
	0616	0921	0.6E
	1156	1556	1.3F
	1934	2256	1.1E
21 Sa	0250	0457	0.4F
	0713	1012	0.6E
	1248	1643	1.3F
	2018	2339	1.2E
22 Su	0328	0544	0.5F
	0812	1105	0.6E
	1343	1732	1.3F
	2102		
23 M		0021	1.2E
	0404	0633	0.6F
	0911	1203	0.7E
	1441	1820	1.2F
	2145		
24 Tu		0105	1.1E
	0441	0721	0.7F
	1013	1302	0.7E
	1543	1915	1.1F
	2229		
25 W		0148	1.1E
	0518	0811	0.8F
	1116	1405	0.7E
	1650	2007	0.9F
	2314		
26 Th		0237	1.0E
	0558	0901	0.9F
	1220	1509	0.7E
	1803	2107	0.7F
27 F	0000	0322	1.0E
	0639	0957	1.0F
	1324	1615	0.7E
	1922	2207	0.6F
28 Sa	0049	0414	0.9E
	0722	1052	1.0F
	1427	1724	0.7E
	2045	2312	0.5F
29 Su	0141	0504	0.8E
	0808	1147	1.1F
	1528	1833	0.8E
	2206		
30 M		0021	0.4F
	0238	0559	0.7E
	0856	1244	1.1F
	1625	1937	0.9E
	2321		
31 Tu		0127	0.3F
	0339	0656	0.6E
	0944	1335	1.2F
	1718	2034	0.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE AND DELAWARE CANAL (Chesapeake City), 1991

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0052	1.5E
Tu	0338	0651	2.0F
	0920	1301	2.5E
	1657	1948	2.4F
	2333		
2		0147	1.6E
W	0445	0748	2.0F
	1020	1355	2.4E
	1747	2039	2.4F
3	0016	0238	1.7E
Th	0549	0841	2.0F
	1120	1446	2.3E
	1834	2127	2.3F
4	0055	0327	1.8E
F	0651	0937	2.0F
	1220	1536	2.1E
	1919	2212	2.2F
5	0132	0415	1.9E
Sa	0751	1031	2.0F
	1322	1628	2.0E
	2002	2257	2.2F
6	0208	0504	1.9E
Su	0849	1127	2.0F
	1425	1718	1.8E
	2043	2345	2.1F
7	0244	0551	2.0E
M	0946	1218	1.9F
	1530	1808	1.6E
	2124		
8		0031	2.0F
Tu	0322	0639	2.0E
	1040	1315	1.9F
	1637	1901	1.5E
	2207		
9		0120	1.9F
W	0402	0728	2.1E
	1133	1408	2.0F
	1741	1954	1.4E
	2252		
10		0209	1.9F
Th	0445	0817	2.1E
	1224	1459	2.0F
	1841	2046	1.3E
	2341		
11		0257	1.9F
F	0531	0905	2.2E
	1314	1551	2.0F
	1936	2139	1.3E
12	0030	0346	1.9F
Sa	0618	0955	2.2E
	1401	1642	2.1F
	2027	2227	1.3E
13	0117	0435	1.9F
Su	0704	1042	2.2E
	1446	1729	2.1F
	2112	2318	1.3E
14	0202	0522	1.9F
M	0749	1127	2.2E
	1528	1815	2.1F
	2153		
15		0000	1.4E
Tu	0243	0607	1.9F
	0832	1212	2.2E
	1606	1857	2.1F
	2229		
16		0042	1.4E
W	0322	0653	1.9F
	0915	1250	2.2E
	1639	1942	2.1F
	2300		
17		0124	1.5E
Th	0400	0739	1.8F
	0957	1329	2.2E
	1707	2022	2.1F
	2326		
18		0203	1.6E
F	0440	0822	1.8F
	1041	1407	2.1E
	1732	2100	2.1F
	2352		
19		0241	1.7E
Sa	0524	0908	1.8F
	1128	1447	2.0E
	1758	2139	2.0F
20	0020	0321	1.8E
Su	0612	0957	1.8F
	1219	1533	1.9E
	1828	2220	2.0F
21	0053	0402	1.9E
M	0705	1048	1.9F
	1316	1618	1.8E
	1903	2303	1.9F
22	0130	0447	2.0E
Tu	0804	1145	1.9F
	1420	1713	1.6E
	1942	2348	1.9F
23	0213	0543	2.1E
W	0911	1243	2.0F
	1533	1811	1.5E
	2028		
24		0043	1.8F
Th	0302	0639	2.2E
	1025	1345	2.0F
	1655	1916	1.3E
	2123		
25		0143	1.8F
F	0358	0743	2.3E
	1142	1447	2.1F
	1820	2025	1.2E
	2228		
26		0242	1.8F
Sa	0459	0849	2.3E
	1254	1550	2.2F
	1937	2135	1.2E
	2349		
27		0342	1.9F
Su	0605	0954	2.4E
	1359	1648	2.2F
	2039	2237	1.3E
28	0118	0445	2.0F
M	0712	1056	2.4E
	1457	1745	2.3F
	2132	2340	1.5E
29	0236	0543	2.0F
Tu	0819	1154	2.4E
	1551	1837	2.3F
	2217		
30		0035	1.6E
W	0343	0638	2.1F
	0922	1250	2.4E
	1640	1926	2.3F
	2258		
31		0126	1.8E
Th	0443	0733	2.1F
	1023	1341	2.3E
	1726	2013	2.3F
	2335		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0212	1.9E
F	0538	0826	2.1F
	1121	1429	2.2E
	1809	2056	2.2F
2	0009	0258	2.0E
Sa	0631	0917	2.1F
	1217	1516	2.0E
	1849	2139	2.2F
3	0042	0343	2.0E
Su	0722	1007	2.1F
	1312	1602	1.9E
	1925	2223	2.1F
4	0115	0425	2.1E
M	0812	1056	2.1F
	1406	1645	1.7E
	1959	2306	2.0F
5	0149	0508	2.1E
Tu	0901	1147	2.0F
	1502	1733	1.5E
	2032	2352	1.9F
6	0227	0554	2.1E
W	0953	1236	2.0F
	1558	1821	1.4E
	2107		
7		0041	1.8F
Th	0310	0643	2.1E
	1046	1329	1.9F
	1657	1912	1.3E
	2149		
8		0130	1.8F
F	0357	0733	2.1E
	1141	1423	1.9F
	1756	2003	1.3E
	2240		
9		0221	1.8F
Sa	0448	0826	2.1E
	1234	1516	2.0F
	1852	2100	1.3E
	2337		
10		0315	1.8F
Su	0541	0920	2.1E
	1326	1607	2.0F
	1944	2152	1.3E
11	0036	0404	1.8F
M	0634	1011	2.1E
	1413	1656	2.0F
	2029	2243	1.4E
12	0131	0456	1.9F
Tu	0725	1059	2.1E
	1456	1744	2.1F
	2108	2331	1.5E
13	0222	0544	1.9F
W	0814	1143	2.1E
	1534	1827	2.1F
	2141		
14		0015	1.6E
Th	0308	0631	1.9F
	0902	1228	2.1E
	1608	1910	2.1F
	2210		
15		0052	1.7E
F	0350	0718	2.0F
	0949	1309	2.1E
	1636	1950	2.1F
	2237		
16		0132	1.8E
Sa	0431	0804	2.0F
	1037	1350	2.0E
	1702	2029	2.0F
	2305		
17		0212	1.9E
Su	0514	0850	2.0F
	1127	1433	1.9E
	1729	2108	2.0F
	2335		
18		0251	2.0E
M	0600	0938	2.0F
	1220	1516	1.8E
	1759	2149	1.9F
19	0011	0334	2.1E
Tu	0651	1031	2.0F
	1316	1602	1.6E
	1834	2234	1.8F
20	0052	0421	2.2E
W	0749	1125	2.0F
	1419	1657	1.5E
	1915	2326	1.8F
21	0139	0516	2.2E
Th	0855	1224	2.0F
	1531	1754	1.3E
	2003		
22		0020	1.7F
F	0234	0618	2.2E
	1011	1325	2.0F
	1650	1901	1.2E
	2105		
23		0124	1.7F
Sa	0337	0725	2.2E
	1129	1428	2.1F
	1809	2012	1.2E
	2228		
24		0227	1.8F
Su	0447	0834	2.2E
	1240	1528	2.1F
	1915	2119	1.3E
25	0011	0331	1.9F
M	0601	0941	2.2E
	1343	1628	2.2F
	2009	2224	1.5E
26	0135	0431	2.0F
Tu	0715	1044	2.2E
	1439	1721	2.2F
	2055	2321	1.7E
27	0241	0528	2.1F
W	0825	1141	2.2E
	1530	1812	2.2F
	2136		
28		0015	1.9E
Th	0339	0625	2.2F
	0928	1235	2.2E
	1617	1857	2.2F
	2213		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE AND DELAWARE CANAL (Chesapeake City), 1991

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

MARCH

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
		0102	2.0E			0023	2.0E
1 F	0431	0717	2.2F	16 Sa	0334	0657	2.1F
	1026	1325	2.1E		0947	1247	1.9E
	1700	1942	2.2F		1600	1917	2.0F
	2247				2145		
		0145	2.1E			0100	2.1E
2 Sa	0519	0806	2.3F	17 Su	0417	0745	2.2F
	1120	1409	2.0E		1039	1333	1.8E
	1740	2025	2.1F		1630	1956	1.9F
	2319				2218		
		0227	2.1E			0141	2.2E
3 Su	0604	0855	2.2F	18 M	0501	0833	2.2F
	1210	1451	1.9E		1132	1417	1.8E
	1817	2107	2.1F		1701	2039	1.9F
	2350				2255		
		0304	2.2E			0224	2.3E
4 M	0647	0940	2.2F	19 Tu	0548	0922	2.2F
	1257	1533	1.7E		1225	1502	1.6E
	1849	2149	2.0F		1735	2123	1.8F
					2336		
		0345	2.1E			0311	2.3E
5 Tu	0023	1025	2.1F	20 W	0640	1014	2.2F
	0729	1613	1.6E		1322	1553	1.5E
	1343	2232	1.9F		1814	2212	1.8F
	1917						
		0426	2.1E		0022	0400	2.3E
6 W	0058	1113	2.1F	21 Th	0738	1108	2.1F
	0813	1657	1.5E		1424	1648	1.4E
	1429	2316	1.8F		1900	2303	1.7F
	1945						
		0510	2.1E		0115	0500	2.2E
7 Th	0137	1201	2.0F	22 F	0845	1205	2.1F
	0900	1742	1.4E		1532	1748	1.3E
	1518				2000		
	2017						
		0004	1.8F			0004	1.7F
8 F	0222	0558	2.0E	23 Sa	0216	0603	2.2E
	0952	1252	1.9F		0959	1307	2.1F
	1609	1830	1.3E		1641	1851	1.3E
	2100				2124		
		0053	1.7F			0109	1.7F
9 Sa	0312	0650	2.0E	24 Su	0327	0711	2.1E
	1048	1346	1.9F		1112	1406	2.1F
	1703	1924	1.3E		1745	2002	1.4E
	2154				2310		
		0147	1.7F			0215	1.8F
10 Su	0408	0745	2.0E	25 M	0446	0820	2.1E
	1145	1437	1.9F		1219	1506	2.1F
	1758	2020	1.3E		1839	2104	1.6E
	2259						
		0242	1.8F	26 Tu	0033	0317	1.9F
11 M	0506	0840	2.0E		0608	0926	2.0E
	1239	1529	1.9F		1319	1601	2.1F
	1847	2115	1.4E		1927	2206	1.8E
	0007	0337	1.8F	27 W	0139	0419	2.0F
12 Tu	0605	0936	2.0E		0724	1027	2.0E
	1328	1620	2.0F		1413	1652	2.1F
	1931	2206	1.5E		2009	2301	1.9E
	0110	0430	1.9F	28 Th	0235	0518	2.2F
13 W	0703	1025	2.0E		0832	1127	2.0E
	1413	1707	2.0F		1502	1739	2.1F
	2009	2253	1.7E		2048	2349	2.1E
	0203	0520	2.0F	29 F	0325	0609	2.3F
14 Th	0800	1115	2.0E		0932	1216	1.9E
	1453	1752	2.0F		1548	1825	2.1F
	2042	2337	1.8E		2123		
	0251	0610	2.1F	30 Sa		0033	2.2E
15 F	0854	1203	2.0E		0411	0658	2.3F
	1528	1835	2.0F		1025	1305	1.9E
	2113				1630	1908	2.1F
					2157		
				31 Su		0113	2.2E
					0454	0745	2.3F
					1114	1347	1.8E
					1709	1951	2.0F
					2229		

APRIL

Day	Slack Water Time	Maximum Current Time	Vel.	Day	Slack Water Time	Maximum Current Time	Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
		0151	2.2E			0118	2.4E
1 M	0534	0829	2.3F	16 Tu	0450	0815	2.4F
	1159	1425	1.7E		1138	1402	1.6E
	1744	2032	1.9F		1635	2011	1.8F
	2301				2222		
		0228	2.2E			0206	2.4E
2 Tu	0611	0911	2.3F	17 W	0540	0906	2.3F
	1240	1506	1.6E		1234	1451	1.5E
	1813	2115	1.8F		1717	2100	1.8F
	2335				2309		
		0307	2.2E			0255	2.4E
3 W	0649	0957	2.2F	18 Th	0634	0959	2.3F
	1320	1543	1.5E		1330	1543	1.4E
	1837	2159	1.8F		1807	2154	1.7F
4 Th	0012	0346	2.1E	19 F	0002	0348	2.3E
	0727	1041	2.1F		0733	1054	2.2F
	1400	1625	1.5E		1427	1641	1.4E
	1904	2241	1.7F		1910	2251	1.7F
	0053	0429	2.1E	20 Sa	0102	0447	2.2E
5 F	0808	1129	2.0F		0836	1149	2.2F
	1441	1707	1.4E		1524	1742	1.4E
	1939	2330	1.7F		2035	2355	1.7F
6 Sa	0139	0516	2.0E	21 Su	0210	0551	2.1E
	0854	1216	2.0F		0942	1246	2.1F
	1526	1756	1.4E		1619	1844	1.5E
	2026				2210		
		0022	1.6F			0100	1.7F
7 Su	0231	0605	2.0E	22 M	0327	0656	2.0E
	0945	1309	1.9F		1047	1342	2.1F
	1613	1847	1.4E		1709	1949	1.6E
	2125				2328		
		0116	1.7F			0204	1.8F
8 M	0329	0703	1.9E	23 Tu	0453	0804	1.9E
	1039	1358	1.9F		1149	1437	2.1F
	1700	1943	1.5E		1756	2050	1.8E
	2235						
		0211	1.7F	24 W	0033	0307	2.0F
9 Tu	0432	0801	1.9E		0617	0910	1.8E
	1133	1450	1.9F		1246	1529	2.1F
	1745	2037	1.6E		1839	2141	2.0E
	2345						
		0308	1.8F	25 Th	0128	0404	2.1F
10 W	0538	0857	1.9E		0730	1009	1.8E
	1225	1539	1.9F		1338	1618	2.1F
	1826	2127	1.8E		1919	2232	2.1E
11 Th	0047	0402	1.9F	26 F	0219	0459	2.2F
	0644	0952	1.8E		0834	1104	1.7E
	1313	1627	2.0F		1428	1707	2.0F
	1905	2216	1.9E		1958	2318	2.2E
12 F	0140	0456	2.1F	27 Sa	0305	0550	2.3F
	0748	1043	1.8E		0929	1153	1.7E
	1358	1711	1.9F		1514	1752	2.0F
	1943	2302	2.1E		2034	2359	2.3E
13 Sa	0229	0547	2.2F	28 Su	0347	0636	2.3F
	0849	1138	1.8E		1018	1239	1.7E
	1439	1757	1.9F		1557	1835	1.9F
	2020	2347	2.2E		2109		
						0037	2.3E
14 Su	0316	0638	2.3F	29 M	0427	0719	2.3F
	0948	1226	1.7E		1103	1319	1.6E
	1518	1842	1.9F		1636	1920	1.9F
	2058				2143		
		0031	2.3E			0118	2.3E
15 M	0402	0726	2.3F	30 Tu	0505	0803	2.3F
	1044	1315	1.7E		1144	1359	1.5E
	1556	1926	1.9F		1709	2000	1.8F
	2138				2217		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0154	2.3E	16		0149	2.5E
W	0540	0845	2.3F	Th	0535	0851	2.4F
	1222	1438	1.5E		1235	1442	1.4E
	1736	2044	1.7F		1714	2046	1.8F
	2254				2253		
2		0234	2.2E	17		0242	2.4E
Th	0614	0927	2.2F	F	0629	0943	2.3F
	1258	1518	1.4E		1326	1535	1.5E
	1800	2127	1.7F		1822	2141	1.8F
	2332				2352		
3		0311	2.2E	18		0336	2.3E
F	0648	1010	2.1F	Sa	0724	1036	2.3F
	1333	1555	1.4E		1414	1630	1.5E
	1830	2210	1.6F		1943	2241	1.8F
4	0015	0353	2.1E	19	0057	0435	2.2E
Sa	0724	1056	2.1F	Su	0821	1129	2.2F
	1409	1636	1.4E		1501	1732	1.6E
	1911	2257	1.6F		2104	2343	1.8F
5	0102	0435	2.0E	20	0211	0535	2.0E
Su	0802	1142	2.0F	M	0917	1220	2.2F
	1446	1726	1.5E		1545	1827	1.8E
	2003	2348	1.6F		2216		
6	0155	0527	1.9E	21		0046	1.8F
M	0844	1230	2.0F	Tu	0333	0636	1.8E
	1525	1814	1.6E		1013	1312	2.1F
	2105				1628	1924	1.9E
					2320		
7		0045	1.6F	22		0149	1.9F
Tu	0255	0620	1.9E	W	0458	0743	1.7E
	0929	1320	2.0F		1109	1405	2.1F
	1605	1904	1.7E		1709	2019	2.0E
	2214						
8		0142	1.7F	23	0017	0248	2.0F
W	0402	0717	1.8E	Th	0617	0844	1.6E
	1018	1408	1.9F		1204	1454	2.0F
	1646	1958	1.8E		1750	2113	2.2E
	2320						
9		0240	1.8F	24	0108	0344	2.1F
Th	0513	0818	1.7E	F	0726	0942	1.5E
	1110	1457	1.9F		1257	1542	2.0F
	1727	2048	2.0E		1831	2201	2.3E
10	0020	0335	2.0F	25	0156	0435	2.2F
F	0627	0916	1.6E	Sa	0826	1037	1.5E
	1202	1544	1.9F		1347	1630	1.9F
	1809	2139	2.2E		1910	2242	2.3E
11	0115	0430	2.1F	26	0240	0524	2.3F
Sa	0738	1013	1.6E	Su	0918	1125	1.5E
	1254	1632	1.9F		1435	1717	1.9F
	1851	2230	2.3E		1949	2325	2.3E
12	0207	0524	2.3F	27	0322	0611	2.3F
Su	0845	1109	1.6E	M	1004	1211	1.4E
	1345	1721	1.9F		1519	1803	1.9F
	1935	2317	2.4E		2027		
13	0258	0616	2.4F	28		0008	2.3E
M	0948	1203	1.5E	Tu	0402	0654	2.3F
	1435	1809	1.8F		1047	1252	1.4E
	2020				1558	1848	1.8F
					2105		
14		0007	2.5E	29		0047	2.3E
Tu	0349	0708	2.4F	W	0439	0737	2.3F
	1046	1255	1.5E		1126	1330	1.4E
	1524	1901	1.8F		1632	1930	1.7F
	2108				2142		
15		0056	2.5E	30		0126	2.3E
W	0441	0758	2.4F	Th	0514	0820	2.3F
	1142	1348	1.4E		1202	1411	1.4E
	1616	1951	1.8F		1701	2013	1.7F
	2159				2220		
				31		0205	2.2E
				F	0546	0901	2.2F
					1235	1447	1.4E
					1730	2056	1.6F
					2301		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0241	2.2E	16		0327	2.2E
Sa	0616	0943	2.2F	Su	0709	1015	2.3F
	1305	1528	1.4E		1346	1618	1.7E
	1806	2143	1.6F		1950	2228	1.9F
	2344						
2		0322	2.1E	17	0059	0421	2.1E
Su	0645	1025	2.1F	M	0757	1103	2.3F
	1334	1609	1.5E		1425	1713	1.9E
	1851	2231	1.6F		2057	2328	1.9F
3	0032	0403	2.0E	18	0213	0519	1.9E
M	0716	1108	2.1F	Tu	0845	1152	2.2F
	1405	1651	1.6E		1504	1804	2.0E
	1944	2323	1.6F		2200		
4	0126	0450	1.9E	19		0027	1.9F
Tu	0752	1151	2.0F	W	0332	0616	1.7E
	1438	1742	1.7E		0933	1240	2.1F
	2044				1542	1856	2.1E
					2258		
5		0015	1.7F	20		0124	2.0F
W	0228	0541	1.8E	Th	0452	0713	1.5E
	0832	1237	2.0F		1023	1329	2.0F
	1515	1827	1.9E		1622	1947	2.2E
	2147				2351		
6		0112	1.8F	21		0222	2.0F
Th	0336	0636	1.7E	F	0605	0813	1.4E
	0916	1323	1.9F		1115	1419	2.0F
	1554	1918	2.0E		1703	2036	2.2E
	2250						
7		0211	1.9F	22	0041	0315	2.1F
F	0452	0739	1.5E	Sa	0710	0908	1.3E
	1005	1414	1.9F		1209	1508	1.9F
	1636	2009	2.2E		1746	2125	2.3E
	2351						
8		0307	2.0F	23	0129	0408	2.2F
Sa	0611	0841	1.4E	Su	0807	1001	1.3E
	1058	1504	1.9F		1301	1557	1.9F
	1722	2103	2.3E		1829	2210	2.3E
9	0050	0404	2.2F	24	0214	0457	2.2F
Su	0729	0944	1.4E	M	0857	1054	1.3E
	1155	1556	1.8F		1352	1645	1.8F
	1810	2158	2.4E		1912	2254	2.3E
10	0148	0459	2.3F	25	0257	0542	2.2F
M	0841	1044	1.3E	Tu	0942	1137	1.3E
	1255	1651	1.8F		1438	1733	1.8F
	1901	2253	2.5E		1954	2337	2.3E
11	0244	0555	2.4F	26	0337	0626	2.2F
Tu	0944	1142	1.3E	W	1024	1222	1.3E
	1358	1743	1.8F		1520	1818	1.8F
	1954	2346	2.5E		2035		
12	0340	0650	2.4F	27		0021	2.3E
W	1042	1240	1.4E	Th	0415	0710	2.2F
	1503	1837	1.9F		1101	1303	1.4E
	2050				1558	1901	1.7F
					2115		
13		0041	2.5E	28		0058	2.2E
Th	0434	0740	2.4F	F	0450	0752	2.2F
	1134	1336	1.4E		1134	1344	1.4E
	1612	1934	1.9F		1633	1947	1.7F
	2147				2156		
14		0137	2.5E	29		0138	2.2E
F	0527	0833	2.4F	Sa	0519	0833	2.2F
	1221	1429	1.5E		1202	1422	1.5E
	1725	2031	1.9F		1709	2031	1.7F
	2247				2238		
15		0232	2.4E	30		0216	2.1E
Sa	0619	0924	2.4F	Su	0544	0914	2.2F
	1305	1523	1.6E		1227	1500	1.5E
	1839	2129	1.9F		1748	2117	1.6F
	2351				2322		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0255	2.1E	16	0101	0402	1.9E
M	0609	0954	2.1F	Tu	0728	1032	2.2F
	1252	1539	1.7E		1341	1641	2.1E
	1832	2205	1.6F		2034	2307	2.0F
2	0011	0336	2.0E	17	0210	0454	1.7E
Tu	0636	1033	2.1F	W	0809	1119	2.1F
	1320	1621	1.8E		1417	1730	2.1E
	1922	2254	1.7F		2131		
3	0106	0419	1.8E	18		0003	2.0F
W	0708	1114	2.0F	Th	0320	0549	1.5E
	1351	1703	1.9E		0850	1206	2.0F
	2017	2348	1.7F		1455	1819	2.2E
					2225		
4	0208	0507	1.7E	19		0057	2.0F
Th	0745	1156	1.9F	F	0431	0640	1.4E
	1428	1748	2.1E		0933	1254	2.0F
	2116				1535	1908	2.2E
					2318		
5		0045	1.8F	20		0151	2.0F
F	0317	0604	1.5E	Sa	0538	0736	1.2E
	0827	1244	1.9F		1020	1343	1.9F
	1508	1841	2.2E		1619	1959	2.2E
	2220						
6		0145	1.9F	21	0008	0242	2.0F
Sa	0434	0705	1.4E	Su	0640	0831	1.2E
	0914	1334	1.8F		1114	1434	1.8F
	1554	1936	2.3E		1705	2048	2.2E
	2325						
7		0241	2.1F	22	0058	0335	2.1F
Su	0558	0810	1.3E	M	0736	0926	1.2E
	1008	1431	1.8F		1211	1523	1.8F
	1645	2034	2.4E		1753	2136	2.2E
8	0031	0342	2.2F	23	0144	0426	2.1F
M	0721	0918	1.2E	Tu	0825	1017	1.2E
	1111	1528	1.8F		1307	1613	1.8F
	1740	2135	2.5E		1840	2224	2.2E
9	0134	0439	2.3F	24	0229	0512	2.1F
Tu	0832	1024	1.2E	W	0910	1105	1.3E
	1222	1626	1.8F		1359	1704	1.8F
	1839	2233	2.5E		1927	2309	2.2E
10	0234	0536	2.3F	25	0311	0557	2.2F
W	0932	1125	1.3E	Th	0949	1150	1.3E
	1341	1724	1.9F		1448	1753	1.8F
	1940	2333	2.5E		2012	2352	2.2E
11	0330	0630	2.4F	26	0348	0644	2.2F
Th	1024	1223	1.4E	F	1023	1234	1.4E
	1503	1823	1.9F		1532	1839	1.8F
	2042				2056		
12		0029	2.5E	27		0035	2.2E
F	0423	0723	2.4F	Sa	0421	0725	2.2F
	1109	1319	1.6E		1053	1314	1.5E
	1619	1920	2.0F		1613	1924	1.8F
	2145				2139		
13		0126	2.4E	28		0114	2.1E
Sa	0514	0812	2.4F	Su	0448	0805	2.2F
	1151	1415	1.7E		1117	1352	1.6E
	1729	2017	2.0F		1651	2009	1.8F
	2249				2224		
14		0216	2.3E	29		0151	2.1E
Su	0601	0901	2.4F	M	0511	0843	2.1F
	1229	1504	1.8E		1140	1429	1.7E
	1834	2115	2.0F		1729	2055	1.8F
	2354				2310		
15		0309	2.1E	30		0230	2.0E
M	0646	0949	2.3F	Tu	0533	0919	2.1F
	1305	1553	2.0E		1204	1506	1.9E
	1935	2212	2.0F		1811	2141	1.8F
				31	0000	0310	1.9E
				W	0559	0959	2.0F
					1233	1545	2.0E
					1857	2228	1.8F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0055	0351	1.7E	16	0258	0516	1.4E
Th	0630	1038	1.9F	F	0805	1132	2.0F
	1306	1628	2.1E		1408	1740	2.2E
	1949	2324	1.9F		2145		
2	0155	0442	1.6E	17		0025	2.0F
F	0706	1119	1.9F	Sa	0359	0606	1.3E
	1345	1714	2.2E		0841	1218	1.9F
	2048				1450	1828	2.2E
					2238		
3		0019	1.9F	18		0115	2.0F
Sa	0304	0539	1.4E	Su	0500	0657	1.2E
	0747	1211	1.8F		0925	1309	1.8F
	1430	1809	2.3E		1536	1918	2.1E
	2155				2330		
4		0120	2.0F	19		0208	2.0F
Su	0422	0640	1.2E	M	0559	0751	1.1E
	0836	1306	1.8F		1019	1402	1.8F
	1521	1908	2.3E		1627	2009	2.1E
	2306						
5		0220	2.1F	20	0022	0301	2.0F
M	0549	0748	1.1E	Tu	0653	0847	1.2E
	0934	1403	1.8F		1124	1453	1.8F
	1619	2011	2.4E		1719	2103	2.2E
6	0016	0320	2.1F	21	0110	0350	2.0F
Tu	0709	0857	1.1E	W	0742	0939	1.2E
	1048	1506	1.8F		1230	1547	1.8F
	1722	2117	2.4E		1812	2152	2.2E
7	0122	0420	2.2F	22	0156	0439	2.1F
W	0814	1006	1.2E	Th	0824	1029	1.3E
	1219	1609	1.9F		1330	1637	1.8F
	1829	2220	2.4E		1904	2240	2.2E
8	0222	0516	2.3F	23	0237	0524	2.1F
Th	0906	1109	1.4E	F	0900	1117	1.5E
	1354	1711	1.9F		1423	1727	1.9F
	1937	2321	2.4E		1954	2325	2.1E
9	0316	0609	2.3F	24	0314	0610	2.1F
F	0951	1206	1.6E	Sa	0932	1200	1.6E
	1513	1810	2.0F		1510	1814	1.9F
	2045				2042		
10		0017	2.4E	25		0008	2.1E
Sa	0406	0659	2.4F	Su	0346	0650	2.1F
	1032	1301	1.8E		0959	1240	1.7E
	1619	1906	2.1F		1552	1900	1.9F
	2150				2130		
11		0113	2.3E	26		0049	2.0E
Su	0453	0746	2.4F	M	0412	0728	2.1F
	1109	1352	1.9E		1023	1317	1.8E
	1719	2001	2.1F		1630	1946	1.9F
	2254				2217		
12		0202	2.2E	27		0129	2.0E
M	0537	0831	2.3F	Tu	0435	0809	2.1F
	1145	1438	2.1E		1048	1356	2.0E
	1815	2056	2.1F		1708	2032	2.0F
	2356				2305		
13		0251	2.0E	28		0208	1.9E
Tu	0618	0917	2.2F	W	0458	0845	2.0F
	1219	1524	2.1E		1116	1434	2.1E
	1909	2150	2.1F		1749	2118	2.0F
					2355		
14	0057	0339	1.8E	29		0249	1.7E
W	0656	1000	2.1F	Th	0525	0926	1.9F
	1253	1609	2.2E		1149	1513	2.2E
	2001	2241	2.1F		1834	2209	2.0F
15	0157	0428	1.6E	30	0050	0330	1.6E
Th	0731	1047	2.0F	F	0557	1005	1.9F
	1329	1652	2.2E		1226	1556	2.2E
	2053	2332	2.0F		1927	2300	2.0F
				31	0150	0421	1.4E
				Sa	0634	1051	1.8F
					1309	1645	2.3E
					2027	2358	2.0F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0258	0519	1.3E	16		0040	2.0F
Su	0718	1144	1.8F	M	0415	0621	1.2E
	1400	1744	2.3E		0839	1235	1.7F
	2137				1455	1837	2.1E
					2245		
2		0057	2.0F	17		0131	1.9F
M	0417	0622	1.1E	Tu	0509	0713	1.2E
	0812	1243	1.7F		0938	1330	1.7F
	1458	1848	2.3E		1549	1930	2.1E
	2251				2337		
3		0158	2.0F	18		0224	2.0F
Tu	0538	0733	1.1E	W	0600	0808	1.2E
	0924	1350	1.7F		1050	1424	1.7F
	1604	1955	2.3E		1646	2025	2.0E
4	0003	0300	2.1F	19	0026	0313	2.0F
W	0647	0845	1.2E	Th	0645	0900	1.4E
	1102	1454	1.8F		1203	1516	1.8F
	1716	2103	2.3E		1745	2115	2.0E
5	0106	0358	2.2F	20	0112	0401	2.0F
Th	0742	0951	1.4E	F	0725	0954	1.5E
	1249	1558	1.9F		1306	1610	1.9F
	1831	2207	2.3E		1843	2208	2.0E
6	0204	0452	2.2F	21	0153	0448	2.1F
F	0828	1051	1.6E	Sa	0759	1039	1.7E
	1409	1701	2.0F		1359	1701	1.9F
	1944	2309	2.2E		1938	2255	2.0E
7	0256	0543	2.3F	22	0230	0531	2.1F
Sa	0909	1147	1.9E	Su	0831	1124	1.8E
	1512	1758	2.1F		1445	1750	2.0F
	2053				2032	2341	2.0E
8		0003	2.2E	23	0303	0613	2.1F
Su	0343	0632	2.3F	M	0900	1207	2.0E
	0947	1235	2.0E		1527	1839	2.1F
	1609	1854	2.2F		2124		
	2157						
9		0056	2.1E	24		0021	1.9E
M	0428	0716	2.3F	Tu	0331	0654	2.0F
	1023	1324	2.2E		0929	1245	2.1E
	1701	1945	2.2F		1607	1924	2.1F
	2257				2214		
10		0145	2.0E	25		0106	1.8E
Tu	0509	0802	2.2F	W	0357	0733	2.0F
	1057	1406	2.2E		1000	1324	2.2E
	1750	2035	2.2F		1647	2011	2.1F
	2352				2304		
11		0231	1.8E	26		0147	1.7E
W	0547	0845	2.1F	Th	0425	0814	1.9F
	1131	1448	2.2E		1033	1405	2.3E
	1837	2121	2.2F		1730	2059	2.1F
					2356		
12	0046	0314	1.7E	27		0233	1.6E
Th	0622	0927	2.0F	F	0455	0855	1.9F
	1206	1530	2.2E		1111	1448	2.3E
	1924	2212	2.1F		1818	2150	2.1F
13	0137	0357	1.5E	28	0051	0320	1.4E
F	0652	1012	1.9F	Sa	0530	0943	1.8F
	1242	1612	2.2E		1154	1533	2.3E
	2011	2258	2.1F		1913	2244	2.1F
14	0228	0441	1.4E	29	0152	0409	1.3E
Sa	0721	1057	1.9F	Su	0612	1032	1.7F
	1322	1657	2.2E		1243	1626	2.3E
	2100	2349	2.0F		2015	2340	2.1F
15	0321	0532	1.3E	30	0259	0508	1.2E
Su	0755	1145	1.8F	M	0705	1129	1.7F
	1406	1746	2.1E		1340	1728	2.2E
	2152				2124		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0037	2.0F	16		0052	1.9F
Tu	0410	0614	1.2E	W	0414	0636	1.3E
	0815	1236	1.7F		0909	1257	1.7F
	1445	1835	2.2E		1511	1849	2.0E
	2236				2238		
2		0137	2.0F	17		0144	1.9F
W	0516	0724	1.3E	Th	0458	0731	1.4E
	0956	1340	1.7F		1024	1353	1.7F
	1559	1943	2.1E		1612	1941	1.9E
	2343				2326		
3		0235	2.1F	18		0233	2.0F
Th	0612	0833	1.5E	F	0540	0822	1.6E
	1148	1446	1.8F		1136	1448	1.8F
	1721	2050	2.1E		1716	2038	1.9E
4	0044	0332	2.1F	19	0012	0322	2.0F
F	0700	0936	1.7E	Sa	0618	0913	1.7E
	1305	1549	2.0F		1238	1542	1.9F
	1842	2155	2.1E		1821	2130	1.9E
5	0139	0423	2.2F	20	0055	0408	2.0F
Sa	0743	1032	1.9E	Su	0655	0959	1.9E
	1407	1649	2.1F		1330	1636	2.0F
	1955	2253	2.0E		1923	2224	1.8E
6	0229	0512	2.2F	21	0134	0452	2.0F
Su	0823	1121	2.1E	M	0730	1047	2.1E
	1502	1744	2.2F		1417	1726	2.1F
	2101	2347	2.0E		2022	2313	1.8E
7	0315	0559	2.2F	22	0211	0534	2.0F
M	0901	1210	2.2E	Tu	0805	1130	2.2E
	1552	1835	2.3F		1502	1815	2.2F
	2200				2119	2359	1.7E
8		0036	1.9E	23	0246	0618	2.0F
Tu	0359	0646	2.2F	W	0841	1211	2.3E
	0937	1253	2.3E		1546	1903	2.2F
	1638	1924	2.3F		2213		
	2253						
9		0124	1.8E	24		0045	1.6E
W	0439	0729	2.1F	Th	0319	0659	1.9F
	1012	1334	2.3E		0919	1255	2.4E
	1723	2011	2.3F		1631	1952	2.3F
	2343				2306		
10		0205	1.7E	25		0131	1.5E
Th	0516	0812	2.0F	F	0353	0746	1.9F
	1047	1415	2.3E		0959	1340	2.4E
	1806	2055	2.2F		1718	2041	2.2F
11	0029	0248	1.6E	26	0000	0218	1.4E
F	0547	0855	1.9F	Sa	0431	0831	1.8F
	1122	1454	2.3E		1044	1426	2.4E
	1848	2143	2.2F		1810	2131	2.2F
12	0114	0329	1.5E	27	0056	0309	1.3E
Sa	0614	0938	1.8F	Su	0514	0923	1.8F
	1159	1535	2.2E		1133	1519	2.4E
	1930	2229	2.1F		1906	2225	2.2F
13	0157	0410	1.4E	28	0154	0403	1.3E
Su	0641	1024	1.8F	M	0608	1019	1.7F
	1240	1618	2.1E		1228	1614	2.3E
	2014	2315	2.0F		2006	2323	2.1F
14	0242	0454	1.3E	29	0252	0504	1.3E
M	0717	1113	1.7F	Tu	0719	1121	1.7F
	1325	1705	2.1E		1331	1716	2.2E
	2101				2110		
15		0004	2.0F	30		0017	2.1F
Tu	0328	0542	1.3E	W	0349	0607	1.4E
	0805	1202	1.7F		0858	1224	1.7F
	1415	1754	2.0E		1443	1822	2.1E
	2149				2214		
				31		0115	2.1F
				Th	0442	0712	1.5E
					1042	1329	1.8F
					1605	1927	1.9E
					2316		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 110° True E-Ebb, Dir. 290° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0209	2.1F
F	0530	0815	1.7E
	1158	1434	1.9F
	1732	2034	1.9E
2	0014	0303	2.1F
Sa	0615	0916	2.0E
	1300	1535	2.0F
	1852	2136	1.8E
3	0107	0352	2.1F
Su	0657	1007	2.1E
	1355	1632	2.2F
	2002	2233	1.8E
4	0157	0444	2.1F
M	0738	1056	2.2E
	1445	1725	2.3F
	2102	2328	1.7E
5	0244	0528	2.1F
Tu	0818	1142	2.3E
	1531	1814	2.3F
	2155		
6		0015	1.7E
W	0328	0615	2.0F
	0855	1223	2.3E
	1615	1902	2.3F
	2244		
7		0100	1.6E
Th	0409	0657	2.0F
	0932	1303	2.3E
	1657	1945	2.3F
	2328		
8		0140	1.5E
F	0444	0741	1.9F
	1008	1344	2.3E
	1737	2029	2.2F
9	0010	0220	1.5E
Sa	0513	0824	1.9F
	1045	1423	2.3E
	1816	2113	2.2F
10	0049	0301	1.4E
Su	0538	0907	1.8F
	1123	1502	2.2E
	1854	2158	2.1F
11	0127	0339	1.4E
M	0608	0953	1.7F
	1204	1545	2.1E
	1930	2242	2.1F
12	0203	0421	1.3E
Tu	0648	1042	1.7F
	1250	1628	2.1E
	2007	2328	2.0F
13	0240	0508	1.4E
W	0740	1131	1.6F
	1340	1715	2.0E
	2046		
14		0014	2.0F
Th	0317	0557	1.5E
	0843	1225	1.6F
	1437	1803	1.9E
	2127		
15		0103	2.0F
F	0356	0647	1.6E
	0953	1320	1.7F
	1540	1901	1.8E
	2211		
16		0149	1.9F
Sa	0435	0740	1.8E
	1101	1417	1.6F
	1647	1955	1.7E
	2256		
17		0238	1.9F
Su	0515	0831	1.9E
	1202	1513	1.9F
	1757	2052	1.7E
	2343		
18		0326	1.9F
M	0555	0920	2.1E
	1257	1606	2.0F
	1906	2148	1.6E
19	0030	0413	1.9F
Tu	0636	1007	2.2E
	1349	1659	2.2F
	2012	2241	1.6E
20	0116	0500	1.9F
W	0719	1056	2.3E
	1439	1751	2.2F
	2113	2334	1.5E
21	0200	0546	1.9F
Th	0802	1144	2.4E
	1529	1840	2.3F
	2211		
22		0025	1.5E
F	0244	0634	1.9F
	0848	1234	2.5E
	1620	1934	2.3F
	2306		
23		0115	1.4E
Sa	0330	0721	1.9F
	0936	1324	2.5E
	1712	2024	2.3F
24	0000	0208	1.4E
Su	0420	0814	1.9F
	1028	1415	2.4E
	1805	2117	2.3F
25	0051	0301	1.4E
M	0518	0909	1.8F
	1123	1508	2.4E
	1859	2209	2.2F
26	0141	0354	1.4E
Tu	0631	1007	1.8F
	1224	1605	2.2E
	1953	2300	2.2F
27	0228	0455	1.5E
W	0759	1109	1.8F
	1332	1703	2.1E
	2049	2355	2.1F
28	0315	0552	1.7E
Th	0927	1212	1.8F
	1449	1805	1.9E
	2145		
29		0046	2.1F
F	0400	0653	1.8E
	1042	1316	1.9F
	1614	1908	1.8E
	2241		
30		0138	2.1F
Sa	0445	0750	2.0E
	1146	1419	2.0F
	1738	2011	1.6E
	2337		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0229	2.0F
Su	0529	0845	2.1E
	1243	1516	2.1F
	1853	2115	1.6E
2	0031	0322	2.0F
M	0614	0939	2.2E
	1335	1612	2.2F
	1957	2211	1.5E
3	0123	0410	2.0F
Tu	0657	1025	2.3E
	1424	1703	2.2F
	2053	2305	1.5E
4	0212	0458	2.0F
W	0740	1112	2.3E
	1509	1752	2.3F
	2142	2351	1.5E
5	0257	0544	2.0F
Th	0821	1156	2.3E
	1553	1838	2.3F
	2227		
6		0034	1.5E
F	0337	0629	1.9F
	0900	1237	2.3E
	1634	1921	2.3F
	2309		
7		0115	1.4E
Sa	0413	0714	1.9F
	0938	1316	2.3E
	1713	2003	2.2F
	2347		
8		0154	1.4E
Su	0443	0758	1.8F
	1017	1356	2.3E
	1748	2046	2.2F
9	0021	0231	1.4E
M	0512	0839	1.8F
	1056	1435	2.2E
	1821	2128	2.1F
10	0052	0311	1.4E
Tu	0546	0926	1.7F
	1137	1511	2.1E
	1850	2210	2.1F
11	0121	0354	1.5E
W	0627	1011	1.7F
	1222	1553	2.0E
	1918	2254	2.0F
12	0150	0435	1.6E
Th	0717	1100	1.7F
	1312	1635	1.9E
	1949	2335	2.0F
13	0222	0519	1.7E
F	0814	1154	1.7F
	1408	1724	1.8E
	2024		
14		0019	1.9F
Sa	0258	0608	1.8E
	0915	1247	1.7F
	1510	1815	1.7E
	2104		
15		0106	1.9F
Su	0337	0656	1.9E
	1019	1343	1.8F
	1619	1915	1.6E
	2149		
16		0155	1.9F
M	0419	0746	2.1E
	1122	1442	1.9F
	1733	2014	1.5E
	2238		
17		0245	1.9F
Tu	0504	0841	2.2E
	1224	1539	2.1F
	1848	2113	1.4E
	2330		
18		0334	1.9F
W	0552	0935	2.3E
	1323	1634	2.2F
	1959	2214	1.4E
19	0025	0427	1.9F
Th	0642	1028	2.4E
	1421	1730	2.3F
	2104	2309	1.4E
20	0122	0518	1.9F
F	0735	1123	2.5E
	1517	1823	2.3F
	2203		
21		0005	1.4E
Sa	0220	0612	1.9F
	0829	1218	2.5E
	1612	1916	2.3F
	2256		
22		0100	1.4E
Su	0322	0706	1.9F
	0925	1311	2.5E
	1705	2006	2.3F
	2344		
23		0155	1.5E
M	0428	0800	2.0F
	1023	1405	2.4E
	1756	2057	2.3F
24	0029	0248	1.6E
Tu	0540	0859	2.0F
	1124	1458	2.3E
	1846	2146	2.3F
25	0111	0341	1.7E
W	0654	0956	2.0F
	1229	1553	2.2E
	1934	2235	2.2F
26	0152	0436	1.8E
Th	0808	1055	1.9F
	1339	1650	2.0E
	2022	2326	2.1F
27	0233	0530	1.9E
F	0917	1156	2.0F
	1454	1748	1.8E
	2112		
28		0017	2.1F
Sa	0315	0627	2.0E
	1022	1255	2.0F
	1613	1847	1.6E
	2203		
29		0106	2.0F
Su	0359	0720	2.1E
	1122	1354	2.0F
	1730	1945	1.4E
	2257		
30		0157	2.0F
M	0445	0813	2.2E
	1217	1452	2.1F
	1839	2045	1.4E
	2353		
31		0250	1.9F
Tu	0533	0906	2.2E
	1310	1547	2.1F
	1939	2142	1.3E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHARLESTON HARBOR (off Ft. Sumter), SOUTH CAROLINA, 1991

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0229	0525	3.1F
	0853	1201	3.3E
	1522	1756	2.4F
	2106		
2 W		0009	3.1E
	0322	0616	3.1F
	0944	1250	3.3E
	1612	1846	2.4F
	2159		
3 Th		0103	3.0E
	0415	0706	2.9F
	1033	1339	3.2E
	1700	1937	2.3F
	2251		
4 F		0154	2.9E
	0508	0757	2.7F
	1122	1429	2.9E
	1749	2026	2.2F
	2344		
5 Sa		0245	2.6E
	0603	0846	2.3F
	1211	1515	2.6E
	1839	2114	2.0F
6 Su	0039	0343	2.4E
	0659	0934	1.9F
	1301	1609	2.4E
	1930	2205	1.8F
7 M	0136	0439	2.1E
	0759	1028	1.6F
	1353	1700	2.1E
	2023	2301	1.7F
8 Tu	0235	0543	1.9E
	0901	1124	1.3F
	1448	1759	1.9E
	2117		
9 W		0002	1.5F
	0336	0649	1.8E
	1005	1230	1.1F
	1545	1900	1.7E
	2212		
10 Th		0109	1.5F
	0435	0756	1.8E
	1106	1345	1.0F
	1642	1958	1.7E
	2305		
11 F		0212	1.5F
	0530	0853	1.8E
	1203	1454	1.0F
	1735	2053	1.7E
	2355		
12 Sa		0300	1.6F
	0620	0941	1.9E
	1252	1539	1.1F
	1824	2138	1.8E
13 Su	0041	0339	1.7F
	0704	1024	2.1E
	1335	1610	1.2F
	1908	2217	1.9E
14 M	0123	0414	1.9F
	0745	1057	2.2E
	1415	1639	1.3F
	1947	2251	2.0E
15 Tu	0203	0449	2.0F
	0822	1128	2.3E
	1451	1711	1.5F
	2024	2327	2.1E
16 W	0240	0523	2.1F
	0857	1200	2.4E
	1525	1745	1.6F
	2058		
17 Th		0001	2.2E
	0317	0600	2.2F
	0930	1231	2.4E
	1559	1822	1.8F
	2131		
18 F		0038	2.3E
	0354	0637	2.3F
	1002	1306	2.5E
	1632	1859	1.9F
	2206		
19 Sa		0118	2.4E
	0433	0718	2.3F
	1034	1345	2.5E
	1707	1940	2.0F
	2245		
20 Su		0157	2.4E
	0516	0801	2.2F
	1109	1426	2.5E
	1745	2023	2.1F
	2329		
21 M		0246	2.4E
	0603	0845	2.1F
	1149	1509	2.4E
	1828	2112	2.1F
22 Tu	0020	0337	2.3E
	0658	0936	1.9F
	1235	1559	2.3E
	1917	2205	2.2F
23 W	0121	0434	2.2E
	0800	1031	1.8F
	1330	1654	2.2E
	2014	2303	2.2F
24 Th	0229	0536	2.2E
	0910	1132	1.6F
	1436	1757	2.2E
	2118		
25 F		0006	2.2F
	0342	0648	2.2E
	1021	1240	1.5F
	1550	1904	2.2E
	2224		
26 Sa		0113	2.3F
	0453	0759	2.4E
	1129	1349	1.6F
	1702	2012	2.4E
	2328		
27 Su		0221	2.5F
	0558	0906	2.7E
	1230	1500	1.8F
	1808	2116	2.6E
28 M	0029	0326	2.7F
	0656	1008	2.9E
	1325	1601	2.0F
	1908	2217	2.8E
29 Tu	0126	0424	2.9F
	0749	1059	3.1E
	1416	1656	2.3F
	2002	2309	3.0E
30 W	0219	0515	3.0F
	0839	1148	3.2E
	1503	1744	2.4F
	2053	2359	3.1E
31 Th	0310	0604	2.9F
	0926	1231	3.2E
	1549	1830	2.5F
	2142		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0046	3.1E
	0400	0650	2.8F
	1011	1315	3.1E
	1633	1913	2.5F
	2229		
2 Sa		0132	2.9E
	0448	0731	2.5F
	1054	1358	2.9E
	1716	1954	2.3F
	2316		
3 Su		0219	2.7E
	0537	0813	2.2F
	1137	1439	2.6E
	1800	2036	2.1F
4 M	0004	0304	2.4E
	0628	0856	1.9F
	1220	1522	2.3E
	1846	2120	1.9F
5 Tu	0054	0356	2.1E
	0721	0941	1.5F
	1305	1611	2.0E
	1936	2209	1.7F
6 W	0149	0451	1.8E
	0820	1032	1.2F
	1356	1703	1.7E
	2030	2300	1.5F
7 Th	0249	0556	1.6E
	0923	1129	0.9F
	1455	1803	1.5E
	2128	2359	1.3F
8 F	0352	0710	1.5E
	1029	1237	0.8F
	1558	1911	1.5E
	2227		
9 Sa		0111	1.3F
	0453	0815	1.6E
	1129	1356	0.8F
	1700	2012	1.5E
	2323		
10 Su		0217	1.4F
	0548	0910	1.8E
	1221	1457	1.0F
	1754	2109	1.7E
11 M	0013	0308	1.6F
	0635	0955	2.0E
	1306	1542	1.2F
	1841	2151	1.9E
12 Tu	0058	0349	1.8F
	0717	1030	2.1E
	1345	1611	1.4F
	1922	2227	2.1E
13 W	0140	0424	2.0F
	0755	1101	2.3E
	1420	1646	1.6F
	1959	2305	2.3E
14 Th	0218	0502	2.2F
	0830	1133	2.5E
	1453	1720	1.9F
	2035	2339	2.5E
15 F	0256	0535	2.3F
	0903	1204	2.6E
	1526	1757	2.1F
	2109		
16 Sa		0016	2.6E
	0334	0615	2.4F
	0935	1237	2.7E
	1559	1834	2.3F
	2146		
17 Su		0055	2.7E
	0414	0654	2.4F
	1008	1315	2.7E
	1634	1915	2.4F
	2225		
18 M		0138	2.7E
	0457	0737	2.4F
	1044	1356	2.6E
	1713	1958	2.5F
	2310		
19 Tu		0223	2.6E
	0545	0822	2.2F
	1124	1443	2.5E
	1758	2046	2.4F
20 W	0002	0312	2.5E
	0640	0911	2.0F
	1212	1532	2.4E
	1849	2141	2.3F
21 Th	0102	0412	2.3E
	0744	1008	1.7F
	1309	1631	2.2E
	1950	2240	2.2F
22 F	0212	0519	2.2E
	0855	1112	1.5F
	1420	1735	2.1E
	2059	2345	2.1F
23 Sa	0327	0634	2.2E
	1008	1223	1.4F
	1540	1851	2.1E
	2210		
24 Su		0059	2.1F
	0440	0751	2.3E
	1115	1340	1.5F
	1655	2005	2.3E
	2318		
25 M		0212	2.3F
	0545	0900	2.6E
	1216	1454	1.8F
	1800	2110	2.5E
26 Tu	0020	0320	2.5F
	0642	0955	2.8E
	1308	1554	2.1F
	1858	2207	2.8E
27 W	0116	0417	2.6F
	0734	1043	3.0E
	1356	1643	2.3F
	1949	2259	3.0E
28 Th	0208	0505	2.7F
	0820	1128	3.1E
	1440	1728	2.5F
	2037	2345	3.1E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHARLESTON HARBOR (off Ft. Sumter), SOUTH CAROLINA, 1991

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0256	0548	2.7F
	0904	1211	3.0E
	1521	1806	2.5F
	2121		
2 Sa		0028	3.0E
	0342	0627	2.5F
	0944	1248	2.9E
	1602	1845	2.5F
	2204		
3 Su		0106	2.9E
	0426	0705	2.3F
	1023	1324	2.7E
	1641	1921	2.4F
	2246		
4 M		0147	2.6E
	0511	0741	2.0F
	1101	1402	2.4E
	1721	2000	2.2F
	2328		
5 Tu		0230	2.4E
	0556	0819	1.7F
	1138	1442	2.2E
	1804	2039	1.9F
6 W	0013	0314	2.1E
	0645	0901	1.4F
	1218	1527	1.9E
	1850	2124	1.7F
7 Th	0103	0405	1.8E
	0740	0948	1.2F
	1305	1615	1.6E
	1943	2215	1.5F
8 F	0200	0500	1.6E
	0841	1041	0.9F
	1404	1712	1.4E
	2043	2311	1.3F
9 Sa	0304	0612	1.5E
	0946	1144	0.8F
	1513	1819	1.4E
	2146		
10 Su		0016	1.3F
	0409	0724	1.5E
	1048	1255	0.8F
	1621	1927	1.5E
	2246		
11 M		0124	1.3F
	0507	0825	1.7E
	1141	1402	1.0F
	1718	2027	1.7E
	2340		
12 Tu		0225	1.5F
	0557	0910	1.9E
	1226	1453	1.3F
	1808	2116	1.9E
13 W	0028	0310	1.8F
	0641	0948	2.1E
	1306	1534	1.6F
	1851	2155	2.2E
14 Th	0112	0355	2.0F
	0720	1024	2.3E
	1342	1614	1.9F
	1930	2236	2.5E
15 F	0153	0432	2.2F
	0756	1057	2.5E
	1416	1651	2.2F
	2008	2312	2.7E
16 Sa	0233	0509	2.4F
	0831	1133	2.7E
	1451	1728	2.4F
	2046	2351	2.9E
17 Su	0314	0550	2.5F
	0906	1211	2.8E
	1526	1810	2.6F
	2126		
18 M		0034	3.0E
	0356	0633	2.5F
	0943	1250	2.8E
	1605	1853	2.8F
	2209		
19 Tu		0118	3.0E
	0442	0716	2.4F
	1023	1333	2.8E
	1647	1938	2.7F
	2256		
20 W		0207	2.8E
	0533	0805	2.2F
	1107	1422	2.6E
	1736	2027	2.6F
	2350		
21 Th		0300	2.7E
	0629	0855	1.9F
	1159	1514	2.4E
	1831	2122	2.4F
22 F	0051	0359	2.4E
	0734	0954	1.7F
	1302	1615	2.2E
	1936	2222	2.2F
23 Sa	0201	0507	2.3E
	0844	1101	1.5F
	1417	1726	2.1E
	2048	2333	2.1F
24 Su	0315	0625	2.2E
	0954	1217	1.4F
	1536	1845	2.1E
	2201		
25 M		0051	2.0F
	0425	0740	2.3E
	1059	1339	1.6F
	1647	2000	2.3E
	2309		
26 Tu		0209	2.1F
	0528	0844	2.5E
	1156	1450	1.9F
	1750	2103	2.5E
27 W	0010	0314	2.3F
	0624	0939	2.7E
	1246	1542	2.1F
	1844	2158	2.7E
28 Th	0105	0407	2.4F
	0713	1024	2.8E
	1331	1629	2.3F
	1933	2246	2.9E
29 F	0154	0451	2.4F
	0757	1105	2.8E
	1413	1704	2.4F
	2017	2327	2.9E
30 Sa	0240	0527	2.3F
	0838	1141	2.8E
	1452	1742	2.4F
	2059		
31 Su		0004	2.9E
	0323	0600	2.2F
	0916	1217	2.6E
	1530	1813	2.4F
	2139		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M		0043	2.7E
	0404	0634	2.0F
	0951	1251	2.5E
	1607	1849	2.3F
	2217		
2 Tu		0121	2.5E
	0445	0709	1.8F
	1026	1326	2.3E
	1645	1925	2.1F
	2256		
3 W		0158	2.3E
	0528	0747	1.6F
	1100	1404	2.0E
	1725	2004	2.0F
	2336		
4 Th		0239	2.1E
	0613	0828	1.4F
	1138	1445	1.8E
	1809	2049	1.8F
5 F	0021	0324	1.8E
	0704	0915	1.2F
	1222	1536	1.6E
	1900	2137	1.5F
6 Sa	0113	0418	1.6E
	0801	1006	1.0F
	1319	1631	1.5E
	1959	2232	1.4F
7 Su	0214	0519	1.6E
	0902	1103	0.9F
	1427	1734	1.4E
	2102	2331	1.3F
8 M	0317	0623	1.6E
	1000	1207	1.0F
	1536	1839	1.5E
	2205		
9 Tu		0034	1.4F
	0416	0727	1.7E
	1053	1308	1.2F
	1636	1940	1.7E
	2302		
10 W		0136	1.5F
	0509	0816	1.9E
	1139	1404	1.4F
	1728	2034	2.0E
	2353		
11 Th		0227	1.7F
	0556	0859	2.1E
	1220	1452	1.8F
	1814	2119	2.3E
12 F	0040	0313	2.0F
	0638	0942	2.4E
	1259	1534	2.1F
	1857	2203	2.6E
13 Sa	0124	0357	2.2F
	0719	1020	2.6E
	1337	1617	2.5F
	1940	2246	2.9E
14 Su	0209	0443	2.3F
	0758	1102	2.8E
	1416	1700	2.7F
	2023	2330	3.0E
15 M	0254	0525	2.4F
	0838	1144	2.9E
	1457	1745	2.9F
	2107		
16 Tu		0014	3.1E
	0340	0611	2.4F
	0921	1227	2.9E
	1540	1830	3.0F
	2155		
17 W		0103	3.1E
	0430	0700	2.3F
	1006	1315	2.8E
	1628	1921	2.9F
	2246		
18 Th		0154	3.0E
	0523	0751	2.2F
	1057	1406	2.6E
	1721	2013	2.8F
	2342		
19 F		0248	2.8E
	0621	0844	1.9F
	1155	1503	2.4E
	1820	2110	2.5F
20 Sa	0043	0349	2.6E
	0723	0945	1.7F
	1301	1606	2.2E
	1926	2213	2.2F
21 Su	0150	0457	2.4E
	0829	1051	1.6F
	1414	1718	2.1E
	2037	2324	2.0F
22 M	0258	0611	2.3E
	0934	1210	1.6F
	1527	1834	2.1E
	2149		
23 Tu		0041	1.9F
	0404	0722	2.4E
	1035	1329	1.7F
	1634	1949	2.3E
	2255		
24 W		0158	1.9F
	0505	0821	2.4E
	1130	1434	1.9F
	1733	2049	2.5E
	2356		
25 Th		0300	2.0F
	0559	0912	2.5E
	1219	1525	2.1F
	1826	2142	2.6E
26 F	0049	0351	2.0F
	0647	1001	2.5E
	1303	1608	2.2F
	1913	2229	2.7E
27 Sa	0138	0430	2.0F
	0730	1039	2.5E
	1344	1643	2.3F
	1956	2310	2.7E
28 Su	0222	0503	1.9F
	0810	1115	2.4E
	1422	1714	2.3F
	2037	2346	2.6E
29 M	0303	0534	1.8F
	0847	1148	2.3E
	1500	1744	2.3F
	2115		
30 Tu		0021	2.5E
	0343	0607	1.7F
	0921	1221	2.2E
	1536	1817	2.2F
	2151		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHARLESTON HARBOR (off Ft. Sumter), SOUTH CAROLINA, 1991

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0054	2.4E
W	0423	0641	1.6F
	0955	1258	2.1E
	1613	1853	2.1F
	2228		
2		0132	2.2E
Th	0503	0718	1.5F
	1030	1335	1.9E
	1653	1934	2.0F
	2306		
3		0211	2.1E
F	0546	0759	1.4F
	1107	1416	1.8E
	1736	2019	1.8F
	2347		
4		0256	1.9E
Sa	0633	0842	1.3F
	1150	1504	1.7E
	1824	2104	1.7F
5	0033	0343	1.8E
Su	0723	0936	1.2F
	1242	1554	1.6E
	1919	2157	1.5F
6	0125	0436	1.7E
M	0816	1029	1.2F
	1343	1654	1.5E
	2019	2252	1.5F
7	0222	0531	1.7E
Tu	0909	1124	1.2F
	1447	1755	1.6E
	2120	2348	1.5F
8	0320	0627	1.8E
W	1000	1221	1.4F
	1549	1852	1.8E
	2219		
9		0047	1.6F
Th	0414	0724	2.0E
	1048	1317	1.7F
	1644	1949	2.1E
	2314		
10		0143	1.7F
F	0506	0812	2.2E
	1133	1409	2.0F
	1737	2041	2.4E
11	0007	0237	1.9F
Sa	0554	0900	2.4E
	1217	1500	2.3F
	1826	2132	2.7E
12	0057	0325	2.1F
Su	0641	0947	2.6E
	1301	1548	2.7F
	1914	2220	2.9E
13	0146	0416	2.2F
M	0727	1033	2.8E
	1346	1637	2.9F
	2003	2308	3.1E
14	0235	0505	2.3F
Tu	0814	1120	2.9E
	1433	1724	3.1F
	2052	2359	3.2E
15	0326	0554	2.4F
W	0903	1209	2.9E
	1522	1814	3.1F
	2143		
16		0051	3.2E
Th	0418	0647	2.3F
	0955	1300	2.9E
	1614	1905	3.0F
	2236		
17		0144	3.1E
F	0512	0739	2.2F
	1050	1355	2.7E
	1710	2000	2.8F
	2332		
18		0239	2.9E
Sa	0609	0836	2.1F
	1150	1455	2.6E
	1810	2058	2.6F
19	0031	0337	2.7E
Su	0707	0936	1.9F
	1255	1558	2.4E
	1915	2159	2.3F
20	0133	0441	2.6E
M	0808	1041	1.8F
	1402	1706	2.3E
	2023	2306	2.0F
21	0235	0548	2.4E
Tu	0908	1151	1.8F
	1509	1818	2.2E
	2131		
22		0020	1.8F
W	0337	0651	2.3E
	1005	1304	1.8F
	1613	1927	2.3E
	2236		
23		0136	1.7F
Th	0435	0753	2.3E
	1059	1409	1.9F
	1711	2028	2.3E
	2336		
24		0237	1.7F
F	0529	0846	2.3E
	1148	1503	2.0F
	1804	2123	2.4E
25	0031	0328	1.6F
Sa	0618	0929	2.2E
	1233	1544	2.1F
	1852	2211	2.4E
26	0119	0409	1.6F
Su	0702	1010	2.2E
	1316	1617	2.1F
	1935	2252	2.4E
27	0204	0442	1.5F
M	0743	1049	2.2E
	1355	1648	2.1F
	2015	2327	2.4E
28	0245	0513	1.5F
Tu	0820	1122	2.1E
	1433	1721	2.1F
	2053		
29		0000	2.3E
W	0324	0541	1.4F
	0856	1155	2.0E
	1511	1754	2.1F
	2130		
30		0033	2.3E
Th	0402	0617	1.4F
	0931	1233	2.0E
	1549	1830	2.0F
	2205		
31		0109	2.2E
F	0441	0654	1.4F
	1006	1310	1.9E
	1627	1909	2.0F
	2241		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0147	2.1E
Sa	0520	0735	1.4F
	1042	1352	1.9E
	1708	1950	1.9F
	2318		
2		0227	2.1E
Su	0602	0816	1.4F
	1123	1435	1.8E
	1753	2035	1.8F
	2358		
3		0311	2.0E
M	0645	0903	1.4F
	1209	1524	1.8E
	1843	2125	1.7F
4	0042	0356	1.9E
Tu	0730	0952	1.5F
	1302	1617	1.8E
	1937	2212	1.7F
5	0130	0447	1.9E
W	0818	1045	1.5F
	1400	1710	1.8E
	2036	2307	1.6F
6	0223	0538	2.0E
Th	0908	1139	1.7F
	1502	1812	1.9E
	2137		
7		0006	1.6F
F	0319	0632	2.1E
	0958	1236	1.9F
	1603	1911	2.1E
	2238		
8		0103	1.7F
Sa	0416	0728	2.2E
	1049	1333	2.2F
	1702	2008	2.4E
	2336		
9		0201	1.8F
Su	0512	0822	2.4E
	1140	1428	2.5F
	1759	2103	2.6E
10	0032	0256	1.9F
M	0608	0916	2.6E
	1231	1522	2.7F
	1853	2159	2.9E
11	0126	0353	2.1F
Tu	0702	1008	2.8E
	1323	1617	3.0F
	1947	2252	3.1E
12	0219	0446	2.2F
W	0756	1102	2.9E
	1415	1708	3.1F
	2039	2346	3.2E
13	0311	0540	2.3F
Th	0850	1154	3.0E
	1508	1801	3.2F
	2132		
14		0037	3.3E
F	0404	0633	2.4F
	0944	1248	3.0E
	1602	1854	3.1F
	2224		
15		0131	3.2E
Sa	0456	0728	2.3F
	1041	1344	2.9E
	1658	1948	2.9F
	2318		
16		0223	3.1E
Su	0549	0821	2.2F
	1138	1443	2.7E
	1757	2045	2.6F
17	0012	0320	2.9E
M	0643	0918	2.1F
	1238	1540	2.5E
	1858	2143	2.3F
18	0108	0415	2.6E
Tu	0739	1016	2.0F
	1340	1646	2.3E
	2001	2239	1.9F
19	0205	0516	2.4E
W	0835	1120	1.9F
	1443	1751	2.2E
	2106	2348	1.7F
20	0303	0617	2.2E
Th	0930	1227	1.8F
	1545	1858	2.1E
	2211		
21		0057	1.5F
F	0401	0716	2.1E
	1024	1333	1.8F
	1644	2002	2.1E
	2312		
22		0208	1.3F
Sa	0456	0815	2.0E
	1116	1430	1.8F
	1739	2059	2.1E
23	0009	0304	1.3F
Su	0547	0903	2.0E
	1205	1517	1.8F
	1828	2150	2.2E
24	0059	0355	1.3F
M	0634	0949	2.0E
	1250	1556	1.9F
	1913	2233	2.2E
25	0144	0426	1.3F
Tu	0718	1027	2.0E
	1332	1629	1.9F
	1955	2312	2.2E
26	0225	0455	1.3F
W	0757	1102	2.0E
	1411	1659	2.0F
	2033	2341	2.2E
27	0303	0525	1.3F
Th	0835	1136	2.0E
	1450	1734	2.0F
	2109		
28		0012	2.2E
F	0340	0556	1.4F
	0910	1211	2.0E
	1527	1809	2.1F
	2143		
29		0047	2.2E
Sa	0416	0633	1.5F
	0944	1250	2.0E
	1605	1847	2.1F
	2217		
30		0120	2.2E
Su	0451	0710	1.6F
	1019	1328	2.0E
	1644	1926	2.1F
	2250		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

JULY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0157	2.2E
M	0527	0749	1.6F
	1056	1406	2.0E
	1725	2007	2.0F
	2325		
2		0236	2.2E
Tu	0605	0836	1.7F
	1137	1451	2.0E
	1811	2052	1.9F
3	0002	0321	2.2E
W	0646	0920	1.8F
	1225	1540	2.0E
	1902	2141	1.8F
4	0045	0406	2.1E
Th	0731	1009	1.8F
	1320	1634	2.0E
	1959	2232	1.7F
5	0134	0457	2.1E
F	0821	1104	1.9F
	1423	1735	2.1E
	2102	2330	1.6F
6	0231	0556	2.1E
Sa	0915	1201	2.1F
	1529	1836	2.2E
	2207		
7		0029	1.6F
Su	0335	0654	2.2E
	1013	1300	2.3F
	1635	1940	2.3E
	2311		
8		0132	1.7F
M	0441	0753	2.4E
	1112	1402	2.5F
	1738	2044	2.6E
9	0012	0233	1.8F
Tu	0545	0854	2.5E
	1210	1503	2.7F
	1837	2142	2.8E
10	0110	0335	2.0F
W	0645	0954	2.8E
	1306	1600	2.9F
	1933	2239	3.1E
11	0203	0433	2.2F
Th	0743	1049	2.9E
	1402	1656	3.1F
	2026	2331	3.3E
12	0255	0528	2.4F
F	0838	1144	3.1E
	1456	1749	3.1F
	2117		
13		0023	3.3E
Sa	0345	0618	2.5F
	0932	1237	3.1E
	1550	1841	3.1F
	2207		
14		0112	3.3E
Su	0434	0712	2.5F
	1025	1328	3.0E
	1644	1932	2.9F
	2257		
15		0203	3.1E
M	0523	0801	2.4F
	1119	1422	2.9E
	1738	2022	2.6F
	2347		
16		0251	2.9E
Tu	0613	0851	2.3F
	1214	1518	2.6E
	1835	2114	2.2F
17	0037	0344	2.6E
W	0704	0943	2.1F
	1311	1615	2.4E
	1934	2205	1.8F
18	0130	0437	2.3E
Th	0757	1038	1.9F
	1410	1716	2.1E
	2036	2304	1.5F
19	0225	0534	2.0E
F	0852	1137	1.7F
	1511	1824	1.9E
	2140		
20		0008	1.2F
Sa	0322	0637	1.8E
	0948	1244	1.6F
	1612	1933	1.9E
	2244		
21		0124	1.0F
Su	0420	0736	1.7E
	1044	1353	1.6F
	1710	2032	1.9E
	2343		
22		0239	1.0F
M	0516	0834	1.7E
	1136	1451	1.6F
	1802	2128	2.0E
23	0035	0332	1.1F
Tu	0608	0925	1.8E
	1225	1534	1.7F
	1849	2211	2.0E
24	0121	0405	1.2F
W	0654	1006	1.9E
	1309	1611	1.8F
	1931	2248	2.1E
25	0201	0436	1.3F
Th	0735	1043	2.0E
	1350	1640	1.9F
	2010	2321	2.2E
26	0237	0502	1.4F
F	0813	1116	2.1E
	1429	1712	2.0F
	2045	2350	2.3E
27	0312	0533	1.6F
Sa	0847	1150	2.2E
	1506	1745	2.1F
	2118		
28		0021	2.3E
Su	0345	0606	1.7F
	0921	1225	2.2E
	1543	1822	2.2F
	2149		
29		0051	2.4E
M	0418	0642	1.8F
	0954	1302	2.3E
	1620	1901	2.2F
	2220		
30		0125	2.4E
Tu	0451	0721	2.0F
	1029	1342	2.3E
	1700	1940	2.1F
	2252		
31		0203	2.4E
W	0526	0804	2.0F
	1109	1423	2.3E
	1743	2025	2.0F
	2327		

AUGUST

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0246	2.3E
Th	0605	0847	2.1F
	1155	1512	2.3E
	1833	2111	1.9F
2	0008	0333	2.2E
F	0650	0936	2.1F
	1249	1605	2.2E
	1931	2204	1.7F
3	0057	0425	2.2E
Sa	0743	1031	2.1F
	1353	1704	2.1E
	2036	2301	1.6F
4	0157	0522	2.1E
Su	0843	1133	2.1F
	1504	1812	2.2E
	2145		
5		0004	1.5F
M	0308	0627	2.1E
	0948	1238	2.2F
	1616	1922	2.3E
	2254		
6		0112	1.6F
Tu	0423	0734	2.3E
	1054	1343	2.4F
	1722	2028	2.5E
	2356		
7		0221	1.7F
W	0532	0840	2.5E
	1157	1450	2.6F
	1823	2131	2.8E
8	0053	0323	2.0F
Th	0635	0942	2.8E
	1255	1550	2.8F
	1919	2226	3.1E
9	0146	0423	2.3F
F	0732	1039	3.0E
	1351	1646	3.0F
	2010	2317	3.2E
10	0234	0514	2.5F
Sa	0825	1131	3.2E
	1444	1737	3.0F
	2059		
11		0004	3.3E
Su	0321	0602	2.6F
	0916	1221	3.2E
	1535	1824	2.9F
	2146		
12		0049	3.2E
M	0407	0648	2.6F
	1005	1310	3.1E
	1626	1909	2.7F
	2231		
13		0135	3.0E
Tu	0452	0731	2.5F
	1054	1358	2.9E
	1716	1954	2.4F
	2316		
14		0219	2.8E
W	0538	0817	2.4F
	1144	1445	2.6E
	1808	2040	2.0F
15	0002	0307	2.4E
Th	0625	0904	2.1F
	1236	1538	2.3E
	1903	2127	1.6F
16	0050	0353	2.1E
F	0716	0952	1.8F
	1332	1634	2.0E
	2002	2217	1.3F
17	0142	0449	1.8E
Sa	0811	1045	1.6F
	1432	1739	1.8E
	2106	2316	1.0F
18	0241	0550	1.6E
Su	0910	1149	1.4F
	1535	1854	1.7E
	2211		
19		0027	0.9F
M	0344	0654	1.5E
	1010	1303	1.4F
	1636	2000	1.7E
	2312		
20		0202	0.9F
Tu	0445	0803	1.6E
	1107	1412	1.4F
	1731	2057	1.8E
21	0005	0300	1.0F
W	0540	0854	1.7E
	1159	1503	1.6F
	1820	2142	2.0E
22	0049	0339	1.2F
Th	0627	0941	1.9E
	1245	1542	1.7F
	1902	2217	2.1E
23	0129	0408	1.4F
F	0709	1017	2.0E
	1326	1614	1.9F
	1940	2248	2.2E
24	0204	0433	1.6F
Sa	0746	1051	2.2E
	1405	1647	2.1F
	2015	2319	2.4E
25	0237	0505	1.8F
Su	0821	1124	2.4E
	1442	1720	2.2F
	2047	2347	2.4E
26	0309	0538	2.0F
M	0854	1159	2.5E
	1519	1755	2.3F
	2118		
27		0020	2.5E
Tu	0341	0615	2.2F
	0928	1238	2.6E
	1557	1833	2.3F
	2149		
28		0055	2.5E
W	0414	0652	2.3F
	1004	1315	2.6E
	1637	1914	2.2F
	2221		
29		0133	2.5E
Th	0450	0735	2.4F
	1045	1400	2.5E
	1722	1957	2.1F
	2258		
30		0216	2.4E
F	0530	0820	2.4F
	1132	1447	2.4E
	1813	2046	1.9F
	2341		
31		0303	2.3E
Sa	0618	0912	2.3F
	1228	1543	2.3E
	1912	2137	1.7F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHARLESTON HARBOR (off Ft. Sumter), SOUTH CAROLINA, 1991

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

SEPTEMBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Su	0033	0400	2.2E
	0716	1009	2.2F
	1334	1644	2.2E
	2019	2240	1.5F
2 M	0140	0501	2.1E
	0822	1110	2.1F
	1448	1754	2.2E
	2131	2348	1.4F
3 Tu	0258	0611	2.1E
	0934	1221	2.1F
	1601	1908	2.3E
	2239		
4 W	0416	0101	1.5F
	1043	0724	2.2E
	1709	1333	2.3F
	2341	2017	2.5E
5 Th	0525	0212	1.8F
	1147	0834	2.5E
	1809	1441	2.5F
		2118	2.8E
6 F	0035	0315	2.1F
	0625	0935	2.8E
	1246	1542	2.6F
	1902	2211	3.0E
7 Sa	0125	0410	2.4F
	0719	1029	3.0E
	1340	1633	2.8F
	1951	2258	3.1E
8 Su	0211	0459	2.6F
	0809	1118	3.2E
	1430	1721	2.8F
	2037	2342	3.1E
9 M	0254	0541	2.7F
	0857	1203	3.2E
	1518	1804	2.7F
	2120		
10 Tu	0337	0023	3.0E
	0942	0624	2.7F
	1605	1246	3.1E
	2202	1845	2.4F
11 W	0419	0104	2.8E
	1027	0702	2.5F
	1652	1329	2.8E
	2243	1923	2.1F
12 Th	0502	0145	2.6E
	1112	0741	2.3F
	1740	1416	2.5E
	2324	2006	1.8F
13 F	0546	0226	2.3E
	1159	0824	2.1F
	1831	1501	2.2E
		2049	1.5F
14 Sa	0008	0314	1.9E
	0634	0911	1.8F
	1251	1552	1.9E
	1927	2137	1.2F
15 Su	0058	0403	1.7E
	0729	1002	1.5F
	1348	1651	1.7E
	2029	2232	0.9F
16 M	0158	0503	1.5E
	0829	1057	1.3F
	1451	1802	1.5E
	2132	2336	0.8F
17 Tu	0305	0613	1.4E
	0933	1207	1.3F
	1554	1911	1.6E
	2233		
18 W		0054	0.9F
	0410	0724	1.5E
	1033	1317	1.3F
	1652	2012	1.7E
	2325		
19 Th		0205	1.0F
	0507	0818	1.7E
	1127	1418	1.5F
	1742	2057	1.9E
20 F	0010	0247	1.3F
	0555	0903	1.9E
	1215	1502	1.7F
	1825	2138	2.1E
21 Sa	0049	0323	1.5F
	0637	0944	2.1E
	1258	1539	1.9F
	1904	2208	2.3E
22 Su	0125	0357	1.8F
	0716	1022	2.4E
	1338	1615	2.1F
	1940	2240	2.4E
23 M	0158	0432	2.1F
	0752	1055	2.6E
	1417	1654	2.2F
	2013	2313	2.5E
24 Tu	0231	0509	2.3F
	0827	1133	2.7E
	1455	1729	2.3F
	2046	2348	2.6E
25 W	0305	0546	2.5F
	0904	1211	2.8E
	1535	1810	2.3F
	2119		
26 Th		0027	2.7E
	0341	0628	2.6F
	0944	1252	2.8E
	1618	1851	2.2F
	2155		
27 F	0108	2.6E	
	0420	0711	2.6F
	1028	1340	2.7E
	1706	1936	2.1F
	2236		
28 Sa	0153	2.5E	
	0505	0758	2.6F
	1118	1429	2.6E
	1759	2027	1.9F
	2325		
29 Su	0242	2.3E	
	0558	0851	2.4F
	1216	1526	2.4E
	1900	2121	1.7F
30 M	0024	0340	2.2E
	0700	0950	2.2F
	1322	1631	2.3E
	2008	2226	1.5F

OCTOBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	0137	0449	2.1E
	0810	1056	2.1F
	1435	1743	2.2E
	2117	2335	1.5F
2 W	0256	0604	2.1E
	0924	1209	2.0F
	1547	1857	2.3E
	2222		
3 Th		0051	1.6F
	0411	0720	2.2E
	1034	1324	2.1F
	1652	2004	2.5E
	2321		
4 F		0205	1.9F
	0516	0828	2.5E
	1138	1434	2.3F
	1750	2102	2.7E
5 Sa	0013	0306	2.2F
	0613	0925	2.8E
	1235	1532	2.4F
	1842	2151	2.9E
6 Su	0101	0354	2.4F
	0705	1016	3.0E
	1327	1619	2.4F
	1929	2236	2.9E
7 M	0145	0439	2.6F
	0752	1102	3.1E
	1415	1702	2.4F
	2013	2318	2.9E
8 Tu	0227	0518	2.6F
	0837	1145	3.0E
	1501	1741	2.3F
	2054	2354	2.8E
9 W	0307	0556	2.6F
	0919	1227	2.9E
	1545	1817	2.1F
	2133		
10 Th		0033	2.6E
	0347	0631	2.5F
	1001	1303	2.7E
	1629	1854	1.9F
	2210		
11 F		0113	2.3E
	0427	0710	2.3F
	1042	1344	2.4E
	1714	1932	1.6F
	2248		
12 Sa		0150	2.1E
	0510	0750	2.0F
	1125	1427	2.1E
	1801	2013	1.4F
	2329		
13 Su		0235	1.8E
	0555	0834	1.8F
	1211	1515	1.9E
	1852	2102	1.2F
14 M	0016	0321	1.6E
	0648	0921	1.6F
	1303	1609	1.7E
	1949	2153	1.0F
15 Tu	0115	0418	1.5E
	0747	1015	1.4F
	1402	1708	1.6E
	2048	2252	0.9F
16 W	0221	0523	1.4E
	0850	1116	1.3F
	1504	1814	1.6E
	2146	2356	1.0F
17 Th	0327	0631	1.5E
	0952	1221	1.3F
	1602	1913	1.7E
	2238		
18 F		0058	1.1F
	0425	0733	1.6E
	1048	1320	1.4F
	1654	2005	1.9E
	2323		
19 Sa		0149	1.4F
	0516	0824	1.9E
	1139	1412	1.6F
	1740	2047	2.1E
20 Su	0004	0237	1.7F
	0601	0906	2.2E
	1225	1457	1.8F
	1822	2125	2.3E
21 M	0042	0318	2.0F
	0642	0945	2.4E
	1308	1539	2.0F
	1900	2201	2.4E
22 Tu	0118	0358	2.3F
	0722	1026	2.7E
	1351	1621	2.1F
	1937	2239	2.6E
23 W	0155	0439	2.6F
	0802	1108	2.9E
	1433	1704	2.2F
	2015	2320	2.7E
24 Th	0233	0522	2.8F
	0844	1151	3.0E
	1517	1747	2.3F
	2054		
25 F		0002	2.7E
	0314	0605	2.9F
	0928	1236	3.0E
	1604	1833	2.2F
	2136		
26 Sa		0047	2.7E
	0359	0652	2.9F
	1016	1325	2.9E
	1654	1920	2.1F
	2224		
27 Su		0137	2.6E
	0449	0743	2.8F
	1109	1416	2.8E
	1749	2013	2.0F
	2319		
28 M		0232	2.4E
	0545	0837	2.6F
	1207	1515	2.6E
	1849	2112	1.8F
29 Tu	0023	0333	2.3E
	0650	0936	2.3F
	1312	1621	2.4E
	1953	2216	1.7F
30 W	0135	0441	2.1E
	0800	1044	2.1F
	1420	1729	2.4E
	2058	2327	1.7F
31 Th	0249	0555	2.2E
	0913	1157	2.0F
	1528	1839	2.4E
	2200		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 335° True E-Ebb, Dir. 120° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0041	1.8F
F	0359	0710	2.3E
	1022	1313	2.0F
	1631	1946	2.5E
	2257		
2		0153	2.0F
Sa	0502	0815	2.5E
	1125	1424	2.0F
	1728	2041	2.6E
	2349		
3		0252	2.2F
Su	0558	0913	2.7E
	1222	1523	2.1F
	1819	2132	2.6E
4	0036	0339	2.4F
M	0648	1004	2.8E
	1313	1607	2.0F
	1906	2214	2.6E
5	0120	0420	2.4F
Tu	0735	1047	2.8E
	1401	1646	2.0F
	1948	2255	2.6E
6	0201	0456	2.5F
W	0818	1128	2.8E
	1445	1722	1.9F
	2028	2331	2.5E
7	0241	0529	2.4F
Th	0859	1206	2.6E
	1527	1755	1.7F
	2106		
8		0006	2.3E
F	0319	0605	2.3F
	0938	1240	2.5E
	1608	1828	1.6F
	2142		
9		0043	2.2E
Sa	0358	0643	2.2F
	1016	1318	2.3E
	1650	1905	1.5F
	2219		
10		0121	2.0E
Su	0439	0719	2.0F
	1055	1358	2.1E
	1733	1946	1.4F
	2258		
11		0203	1.8E
M	0522	0802	1.8F
	1136	1439	2.0E
	1819	2029	1.3F
	2341		
12		0248	1.7E
Tu	0610	0849	1.7F
	1221	1528	1.8E
	1908	2116	1.2F
13	0033	0341	1.6E
W	0704	0936	1.5F
	1312	1621	1.7E
	2000	2212	1.1F
14	0132	0437	1.5E
Th	0803	1031	1.4F
	1407	1714	1.7E
	2053	2307	1.2F
15	0235	0536	1.5E
F	0904	1131	1.4F
	1503	1810	1.7E
	2144		
16		0004	1.3F
Sa	0335	0638	1.7E
	1003	1226	1.4F
	1557	1904	1.9E
	2231		
17		0057	1.5F
Su	0430	0734	1.9E
	1059	1323	1.5F
	1648	1952	2.0E
	2316		
18		0149	1.8F
M	0521	0825	2.2E
	1150	1417	1.7F
	1735	2038	2.2E
	2359		
19		0240	2.1F
Tu	0608	0913	2.4E
	1239	1503	1.9F
	1820	2126	2.4E
20	0041	0326	2.5F
W	0655	1000	2.7E
	1326	1551	2.0F
	1904	2210	2.6E
21	0124	0414	2.7F
Th	0741	1046	2.9E
	1413	1640	2.2F
	1949	2256	2.8E
22	0208	0459	2.9F
F	0828	1134	3.1E
	1501	1728	2.2F
	2035	2342	2.8E
23	0255	0548	3.1F
Sa	0916	1223	3.1E
	1551	1818	2.3F
	2124		
24		0031	2.8E
Su	0345	0638	3.0F
	1007	1313	3.1E
	1642	1909	2.2F
	2217		
25		0124	2.8E
M	0438	0731	2.9F
	1100	1406	3.0E
	1736	2003	2.1F
	2315		
26		0219	2.6E
Tu	0536	0826	2.7F
	1156	1503	2.8E
	1833	2058	2.0F
27	0017	0321	2.5E
W	0639	0924	2.4F
	1256	1603	2.6E
	1932	2202	1.9F
28	0124	0426	2.3E
Th	0746	1028	2.1F
	1358	1707	2.5E
	2032	2308	1.9F
29	0233	0538	2.3E
F	0855	1137	1.9F
	1502	1814	2.4E
	2131		
30		0021	1.9F
Sa	0340	0652	2.3E
	1004	1254	1.8F
	1603	1917	2.3E
	2228		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0130	2.0F
Su	0442	0759	2.4E
	1108	1404	1.7F
	1701	2015	2.3E
	2321		
2		0231	2.1F
M	0539	0858	2.5E
	1207	1503	1.7F
	1754	2108	2.3E
3	0010	0323	2.2F
Tu	0631	0951	2.5E
	1259	1554	1.6F
	1842	2155	2.3E
4	0056	0404	2.2F
W	0718	1033	2.5E
	1347	1635	1.6F
	1926	2236	2.3E
5	0138	0439	2.2F
Th	0801	1114	2.5E
	1430	1708	1.5F
	2006	2309	2.2E
6	0219	0511	2.2F
F	0840	1151	2.4E
	1510	1736	1.5F
	2044	2346	2.1E
7	0257	0544	2.2F
Sa	0918	1224	2.4E
	1549	1807	1.5F
	2120		
8		0021	2.1E
Su	0336	0617	2.1F
	0954	1257	2.3E
	1627	1840	1.5F
	2156		
9		0059	2.0E
M	0415	0656	2.0F
	1030	1333	2.2E
	1705	1920	1.5F
	2232		
10		0138	1.9E
Tu	0455	0737	2.0F
	1106	1410	2.1E
	1745	2001	1.4F
	2311		
11		0220	1.9E
W	0538	0818	1.8F
	1143	1451	2.0E
	1827	2044	1.4F
	2354		
12		0305	1.8E
Th	0625	0905	1.7F
	1224	1536	1.9E
	1911	2133	1.4F
13	0043	0354	1.7E
F	0718	0953	1.6F
	1309	1626	1.9E
	1957	2224	1.5F
14	0139	0447	1.7E
Sa	0815	1044	1.5F
	1359	1719	1.9E
	2046	2315	1.6F
15	0240	0546	1.8E
Su	0916	1143	1.5F
	1454	1810	1.9E
	2137		
16		0011	1.7F
M	0341	0648	1.9E
	1017	1238	1.5F
	1551	1903	2.0E
	2228		
17		0108	1.9F
Tu	0441	0745	2.1E
	1116	1338	1.6F
	1648	1959	2.2E
	2318		
18		0205	2.2F
W	0537	0843	2.4E
	1212	1433	1.7F
	1743	2053	2.4E
19	0009	0257	2.5F
Th	0631	0935	2.7E
	1305	1528	1.9F
	1837	2145	2.6E
20	0059	0352	2.8F
F	0723	1030	2.9E
	1356	1623	2.1F
	1930	2237	2.8E
21	0150	0443	3.0F
Sa	0814	1120	3.1E
	1446	1712	2.3F
	2022	2329	3.0E
22	0241	0534	3.1F
Su	0905	1209	3.3E
	1536	1806	2.4F
	2115		
23		0020	3.0E
M	0334	0627	3.2F
	0955	1300	3.3E
	1626	1857	2.4F
	2209		
24		0114	3.0E
Tu	0428	0718	3.0F
	1047	1351	3.2E
	1717	1950	2.4F
	2305		
25		0207	2.9E
W	0525	0812	2.8F
	1139	1445	3.0E
	1810	2045	2.3F
26	0003	0307	2.7E
Th	0624	0907	2.5F
	1234	1540	2.8E
	1904	2138	2.2F
27	0104	0406	2.5E
F	0727	1005	2.1F
	1331	1638	2.5E
	2001	2242	2.0F
28	0208	0514	2.3E
Sa	0833	1108	1.8F
	1430	1739	2.3E
	2058	2348	1.9F
29	0314	0625	2.2E
Su	0940	1216	1.5F
	1531	1843	2.1E
	2156		
30		0057	1.8F
M	0417	0736	2.1E
	1047	1339	1.3F
	1631	1949	2.0E
	2253		
31		0209	1.9F
Tu	0517	0838	2.2E
	1149	1453	1.3F
	1728	2047	2.0E
	2346		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

SAVANNAH RIVER ENTRANCE (between jetties), GEORGIA, 1991

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
I		0005	2.9E
Tu	0320	0556	2.3F
	0912	1240	3.3E
	1610	1830	1.9F
	2134		
2		0058	2.9E
W	0414	0648	2.3F
	1003	1332	3.3E
	1700	1921	1.9F
	2228		
3		0151	2.9E
Th	0508	0739	2.2F
	1053	1421	3.2E
	1750	2011	1.9F
	2320		
4		0244	2.8E
F	0601	0830	2.0F
	1141	1512	3.0E
	1839	2100	1.8F
5	0012	0335	2.7E
Sa	0656	0919	1.8F
	1228	1601	2.8E
	1929	2149	1.7F
6	0104	0429	2.5E
Su	0753	1010	1.5F
	1315	1652	2.6E
	2020	2239	1.5F
7	0158	0523	2.4E
M	0851	1058	1.2F
	1402	1743	2.4E
	2112	2329	1.4F
8	0252	0619	2.2E
Tu	0952	1152	1.0F
	1452	1837	2.2E
	2204		
9		0020	1.3F
W	0348	0714	2.1E
	1053	1246	0.8F
	1545	1930	2.1E
	2257		
10		0114	1.2F
Th	0443	0810	2.1E
	1152	1342	0.7F
	1642	2023	2.0E
	2349		
11		0207	1.2F
F	0536	0905	2.1E
	1247	1436	0.7F
	1738	2116	2.0E
12	0039	0257	1.2F
Sa	0625	0956	2.2E
	1337	1529	0.8F
	1831	2206	2.0E
13	0126	0346	1.3F
Su	0711	1041	2.3E
	1422	1618	0.9F
	1919	2251	2.0E
14	0211	0431	1.4F
M	0752	1126	2.4E
	1503	1703	1.0F
	2002	2336	2.1E
15	0253	0513	1.5F
Tu	0829	1208	2.5E
	1542	1745	1.1F
	2041		
16		0017	2.2E
W	0333	0555	1.6F
	0903	1246	2.5E
	1618	1824	1.3F
	2117		
17		0058	2.2E
Th	0413	0638	1.6F
	0936	1323	2.6E
	1654	1905	1.4F
	2153		
18		0137	2.3E
F	0454	0719	1.7F
	1010	1402	2.6E
	1730	1946	1.5F
	2230		
19		0219	2.3E
Sa	0535	0802	1.7F
	1045	1443	2.6E
	1807	2028	1.6F
	2311		
20		0302	2.4E
Su	0620	0847	1.7F
	1123	1526	2.5E
	1847	2113	1.7F
	2355		
21		0348	2.4E
M	0708	0932	1.6F
	1206	1610	2.5E
	1931	2200	1.7F
22	0043	0439	2.4E
Tu	0802	1023	1.5F
	1253	1658	2.4E
	2020	2251	1.7F
23	0138	0534	2.4E
W	0901	1117	1.4F
	1346	1754	2.3E
	2114	2346	1.7F
24	0240	0635	2.4E
Th	1005	1216	1.3F
	1447	1855	2.3E
	2213		
25		0046	1.8F
F	0347	0738	2.5E
	1110	1317	1.3F
	1556	1957	2.4E
	2315		
26		0147	1.8F
Sa	0458	0839	2.6E
	1214	1422	1.3F
	1711	2100	2.5E
27	0017	0249	1.9F
Su	0606	0940	2.8E
	1314	1524	1.4F
	1824	2159	2.6E
28	0117	0349	2.0F
M	0709	1038	2.9E
	1410	1625	1.6F
	1929	2257	2.8E
29	0214	0447	2.1F
Tu	0806	1131	3.1E
	1501	1720	1.7F
	2028	2352	2.9E
30	0308	0541	2.1F
W	0858	1224	3.2E
	1550	1814	1.9F
	2121		
31		0041	3.0E
Th	0400	0632	2.1F
	0947	1312	3.2E
	1638	1900	1.9F
	2211		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0133	3.0E
F	0451	0718	2.1F
	1032	1358	3.1E
	1723	1946	1.9F
	2258		
2		0221	2.9E
Sa	0541	0805	1.9F
	1115	1444	3.0E
	1809	2032	1.8F
	2344		
3		0309	2.7E
Su	0631	0850	1.7F
	1156	1528	2.7E
	1854	2116	1.7F
4	0029	0358	2.6E
M	0723	0936	1.5F
	1235	1616	2.5E
	1941	2203	1.6F
5	0115	0446	2.4E
Tu	0817	1023	1.2F
	1315	1705	2.3E
	2030	2248	1.4F
6	0203	0540	2.2E
W	0914	1110	1.0F
	1358	1755	2.1E
	2122	2336	1.3F
7	0254	0634	2.1E
Th	1014	1203	0.8F
	1447	1849	1.9E
	2217		
8		0030	1.1F
F	0350	0731	2.0E
	1115	1300	0.7F
	1547	1947	1.8E
	2313		
9		0124	1.1F
Sa	0448	0828	2.0E
	1213	1357	0.7F
	1653	2042	1.8E
10	0007	0219	1.1F
Su	0544	0921	2.1E
	1304	1454	0.7F
	1756	2137	1.9E
11	0058	0314	1.2F
M	0635	1011	2.2E
	1350	1546	0.9F
	1850	2224	2.0E
12	0145	0402	1.3F
Tu	0720	1056	2.4E
	1431	1633	1.1F
	1937	2309	2.2E
13	0229	0449	1.4F
W	0800	1136	2.5E
	1509	1716	1.3F
	2017	2351	2.3E
14	0310	0532	1.6F
Th	0837	1217	2.6E
	1545	1758	1.4F
	2055		
15		0032	2.4E
F	0351	0615	1.7F
	0913	1255	2.7E
	1621	1839	1.6F
	2132		
16		0115	2.5E
Sa	0431	0656	1.8F
	0948	1336	2.7E
	1657	1920	1.8F
	2210		
17		0155	2.6E
Su	0514	0739	1.8F
	1024	1414	2.7E
	1735	2003	1.9F
	2250		
18		0240	2.6E
M	0558	0823	1.8F
	1104	1457	2.6E
	1816	2046	1.9F
	2335		
19		0325	2.6E
Tu	0647	0912	1.7F
	1146	1544	2.6E
	1902	2135	1.9F
20	0023	0416	2.6E
W	0741	1003	1.6F
	1234	1636	2.5E
	1953	2226	1.9F
21	0118	0514	2.5E
Th	0841	1056	1.4F
	1328	1733	2.4E
	2051	2324	1.8F
22	0220	0613	2.5E
F	0946	1155	1.3F
	1432	1835	2.3E
	2154		
23		0025	1.7F
Sa	0330	0718	2.5E
	1053	1259	1.2F
	1546	1941	2.3E
	2300		
24		0128	1.7F
Su	0443	0822	2.5E
	1157	1404	1.3F
	1705	2044	2.4E
25	0005	0234	1.7F
M	0553	0924	2.7E
	1257	1509	1.4F
	1817	2146	2.6E
26	0106	0334	1.8F
Tu	0655	1021	2.8E
	1351	1609	1.6F
	1919	2244	2.7E
27	0203	0433	1.9F
W	0750	1114	3.0E
	1441	1703	1.7F
	2014	2336	2.9E
28	0256	0526	1.9F
Th	0840	1203	3.0E
	1527	1752	1.8F
	2104		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0025	2.9E
F	0345	0614	1.9F
	0925	1248	3.0E
	1611	1837	1.9F
	2149		
2		0110	2.9E
Sa	0433	0657	1.9F
	1007	1331	2.9E
	1654	1917	1.9F
	2232		
3		0155	2.9E
Su	0519	0738	1.7F
	1045	1415	2.8E
	1736	2001	1.8F
	2312		
4		0240	2.7E
M	0605	0821	1.6F
	1121	1456	2.6E
	1818	2041	1.7F
	2351		
5		0326	2.5E
Tu	0653	0903	1.4F
	1156	1539	2.4E
	1902	2125	1.6F
6	0030	0410	2.4E
W	0743	0948	1.2F
	1231	1626	2.2E
	1949	2208	1.4F
7	0111	0501	2.2E
Th	0836	1033	1.0F
	1310	1717	2.0E
	2041	2257	1.2F
8	0158	0554	2.0E
F	0934	1127	0.8F
	1358	1812	1.8E
	2137	2350	1.1F
9	0251	0650	2.0E
Sa	1034	1222	0.7F
	1457	1909	1.7E
	2235		
10		0045	1.0F
Su	0352	0748	2.0E
	1131	1319	0.7F
	1608	2007	1.8E
	2333		
11		0141	1.0F
M	0454	0845	2.0E
	1224	1416	0.8F
	1717	2102	1.9E
12	0027	0238	1.1F
Tu	0550	0934	2.2E
	1310	1510	1.0F
	1815	2153	2.1E
13	0116	0329	1.3F
W	0640	1019	2.3E
	1352	1559	1.2F
	1904	2241	2.2E
14	0201	0420	1.4F
Th	0725	1104	2.5E
	1431	1644	1.4F
	1947	2322	2.4E
15	0244	0503	1.6F
F	0805	1145	2.6E
	1508	1729	1.7F
	2027		
16		0006	2.6E
Sa	0327	0549	1.7F
	0844	1224	2.7E
	1545	1810	1.9F
	2107		
17		0049	2.8E
Su	0409	0632	1.8F
	0923	1307	2.8E
	1624	1853	2.0F
	2148		
18		0132	2.9E
M	0453	0717	1.9F
	1003	1348	2.8E
	1705	1938	2.1F
	2232		
19		0215	2.9E
Tu	0540	0802	1.8F
	1046	1434	2.7E
	1749	2024	2.1F
	2318		
20		0305	2.8E
W	0631	0851	1.8F
	1132	1524	2.6E
	1839	2115	2.0F
21	0008	0358	2.7E
Th	0726	0944	1.6F
	1223	1617	2.5E
	1934	2208	1.9F
22	0104	0455	2.6E
F	0826	1040	1.5F
	1321	1717	2.4E
	2035	2305	1.8F
23	0207	0557	2.5E
Sa	0931	1141	1.3F
	1430	1821	2.3E
	2141		
24		0008	1.6F
Su	0317	0701	2.5E
	1036	1244	1.3F
	1546	1926	2.3E
	2249		
25		0112	1.5F
M	0430	0804	2.5E
	1139	1351	1.3F
	1701	2032	2.4E
	2355		
26		0218	1.5F
Tu	0537	0905	2.6E
	1237	1454	1.4F
	1808	2133	2.6E
27	0055	0319	1.6F
W	0637	1002	2.7E
	1329	1553	1.5F
	1906	2228	2.7E
28	0151	0415	1.6F
Th	0730	1052	2.8E
	1416	1644	1.7F
	1957	2315	2.8E
29	0241	0506	1.7F
F	0817	1139	2.8E
	1501	1729	1.8F
	2043		
30		0004	2.9E
Sa	0329	0549	1.7F
	0900	1222	2.8E
	1542	1808	1.8F
	2124		
31		0047	2.8E
Su	0414	0631	1.6F
	0938	1303	2.7E
	1623	1849	1.8F
	2203		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0129	2.8E
M	0457	0710	1.5F
	1013	1343	2.6E
	1703	1928	1.8F
	2239		
2		0211	2.7E
Tu	0541	0750	1.4F
	1046	1424	2.4E
	1744	2008	1.7F
	2314		
3		0253	2.5E
W	0625	0833	1.3F
	1119	1509	2.2E
	1826	2050	1.6F
	2349		
4		0338	2.4E
Th	0712	0916	1.2F
	1154	1554	2.1E
	1912	2135	1.4F
5	0026	0426	2.2E
F	0802	1003	1.0F
	1234	1642	1.9E
	2003	2222	1.3F
6	0109	0517	2.1E
Sa	0856	1052	0.9F
	1322	1737	1.8E
	2058	2311	1.1F
7	0158	0611	2.0E
Su	0951	1147	0.9F
	1420	1832	1.7E
	2157		
8		0007	1.1F
M	0254	0707	2.0E
	1046	1242	0.9F
	1527	1930	1.8E
	2256		
9		0104	1.1F
Tu	0356	0800	2.1E
	1137	1338	1.0F
	1634	2026	1.9E
	2351		
10		0201	1.1F
W	0457	0851	2.2E
	1224	1431	1.2F
	1733	2117	2.1E
11	0043	0254	1.3F
Th	0552	0940	2.3E
	1307	1521	1.4F
	1825	2205	2.4E
12	0131	0346	1.4F
F	0642	1026	2.5E
	1348	1609	1.6F
	1913	2251	2.6E
13	0216	0435	1.6F
Sa	0729	1112	2.6E
	1429	1656	1.9F
	1958	2337	2.8E
14	0302	0520	1.7F
Su	0813	1155	2.7E
	1510	1742	2.1F
	2043		
15		0023	2.9E
M	0347	0609	1.8F
	0858	1240	2.8E
	1553	1827	2.2F
	2128		
16		0108	3.0E
Tu	0435	0656	1.9F
	0944	1327	2.8E
	1639	1916	2.3F
	2215		
17		0157	3.1E
W	0524	0745	1.9F
	1032	1415	2.7E
	1728	2005	2.2F
	2304		
18		0246	3.0E
Th	0616	0835	1.8F
	1123	1506	2.7E
	1821	2056	2.1F
	2357		
19		0341	2.9E
F	0713	0928	1.7F
	1219	1603	2.5E
	1919	2151	1.9F
20	0055	0440	2.8E
Sa	0812	1027	1.5F
	1322	1705	2.4E
	2023	2249	1.7F
21	0157	0541	2.7E
Su	0914	1126	1.4F
	1431	1808	2.4E
	2129	2352	1.6F
22	0304	0644	2.6E
M	1016	1230	1.4F
	1543	1912	2.4E
	2237		
23		0056	1.4F
Tu	0412	0745	2.6E
	1116	1334	1.4F
	1651	2015	2.4E
	2341		
24		0159	1.4F
W	0515	0841	2.6E
	1211	1435	1.4F
	1752	2114	2.5E
25	0041	0301	1.4F
Th	0613	0936	2.6E
	1302	1530	1.5F
	1847	2209	2.6E
26	0135	0354	1.4F
F	0704	1027	2.6E
	1349	1618	1.6F
	1935	2257	2.7E
27	0225	0441	1.4F
Sa	0750	1112	2.6E
	1432	1659	1.7F
	2018	2340	2.7E
28	0311	0526	1.4F
Su	0831	1155	2.5E
	1513	1739	1.7F
	2058		
29		0021	2.7E
M	0354	0604	1.3F
	0908	1236	2.4E
	1553	1818	1.7F
	2134		
30		0104	2.7E
Tu	0436	0643	1.3F
	0942	1315	2.3E
	1632	1857	1.7F
	2208		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

best copy available

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0145	2.6E
W	0518	0721	1.3F
	1015	1356	2.2E
	1713	1936	1.6F
	2240		
2		0226	2.5E
Th	0601	0804	1.2F
	1048	1439	2.1E
	1755	2019	1.5F
	2314		
3		0309	2.4E
F	0644	0847	1.1F
	1125	1522	2.0E
	1840	2102	1.4F
	2350		
4		0354	2.3E
Sa	0731	0934	1.1F
	1206	1611	1.9E
	1929	2148	1.3F
5	0030	0443	2.2E
Su	0819	1023	1.1F
	1254	1703	1.8E
	2022	2239	1.2F
6	0116	0533	2.1E
M	0909	1115	1.0F
	1349	1756	1.8E
	2119	2332	1.1F
7	0207	0625	2.1E
Tu	0959	1206	1.1F
	1449	1851	1.9E
	2216		
8		0027	1.1F
W	0303	0719	2.1E
	1048	1259	1.2F
	1550	1947	2.0E
	2313		
9		0123	1.2F
Th	0402	0810	2.2E
	1136	1352	1.4F
	1650	2040	2.2E
10	0007	0218	1.3F
F	0501	0901	2.3E
	1222	1445	1.6F
	1746	2133	2.4E
11	0058	0311	1.4F
Sa	0558	0949	2.5E
	1307	1537	1.8F
	1839	2222	2.7E
12	0148	0403	1.6F
Su	0652	1038	2.6E
	1353	1624	2.0F
	1930	2310	2.9E
13	0238	0454	1.7F
M	0744	1126	2.7E
	1439	1715	2.2F
	2020	2359	3.1E
14	0327	0545	1.8F
Tu	0836	1215	2.8E
	1528	1806	2.3F
	2110		
15		0049	3.2E
W	0417	0636	1.9F
	0928	1306	2.8E
	1618	1855	2.3F
	2201		
16		0141	3.2E
Th	0509	0727	1.9F
	1021	1358	2.8E
	1711	1947	2.3F
	2254		
17		0233	3.1E
F	0602	0820	1.8F
	1117	1453	2.7E
	1807	2040	2.1F
	2348		
18		0326	3.0E
Sa	0658	0915	1.7F
	1216	1548	2.6E
	1906	2135	1.9F
19	0044	0423	2.9E
Su	0755	1013	1.6F
	1318	1649	2.5E
	2009	2234	1.7F
20	0144	0522	2.8E
M	0853	1111	1.5F
	1423	1756	2.5E
	2114	2333	1.5F
21	0245	0620	2.6E
Tu	0951	1209	1.5F
	1529	1851	2.4E
	2219		
22		0035	1.1F
W	0347	0719	2.5E
	1048	1308	1.4F
	1631	1952	2.4E
	2322		
23		0136	1.2F
Th	0446	0816	2.5E
	1142	1406	1.4F
	1729	2050	2.5E
24	0022	0234	1.2F
F	0542	0909	2.4E
	1232	1458	1.5F
	1822	2143	2.5E
25	0116	0325	1.1F
Sa	0633	0958	2.4E
	1319	1546	1.5F
	1910	2230	2.5E
26	0206	0415	1.1F
Su	0719	1044	2.3E
	1403	1629	1.5F
	1953	2317	2.5E
27	0252	0457	1.1F
M	0801	1127	2.3E
	1445	1710	1.6F
	2032		
28		0000	2.5E
Tu	0335	0538	1.1F
	0839	1208	2.2E
	1526	1749	1.6F
	2107		
29		0041	2.5E
W	0416	0617	1.1F
	0915	1249	2.2E
	1605	1829	1.6F
	2140		
30		0119	2.5E
Th	0456	0658	1.1F
	0949	1331	2.1E
	1646	1910	1.5F
	2213		
31		0200	2.5E
F	0537	0739	1.2F
	1024	1414	2.1E
	1728	1953	1.5F
	2245		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0243	2.4E
Sa	0617	0822	1.2F
	1102	1457	2.0E
	1812	2036	1.5F
	2320		
2		0325	2.3E
Su	0659	0906	1.2F
	1143	1543	2.0E
	1858	2119	1.4F
	2358		
3		0410	2.3E
M	0743	0953	1.2F
	1228	1632	1.9E
	1948	2208	1.3F
4	0041	0455	2.2E
Tu	0827	1040	1.3F
	1318	1723	2.0E
	2042	2259	1.3F
5	0128	0544	2.2E
W	0914	1131	1.3F
	1412	1814	2.0E
	2138	2351	1.2F
6	0220	0635	2.2E
Th	1001	1222	1.4F
	1510	1909	2.1E
	2235		
7		0046	1.2F
F	0316	0728	2.2E
	1050	1315	1.6F
	1610	2004	2.3E
	2332		
8		0143	1.3F
Sa	0416	0822	2.3E
	1140	1409	1.7F
	1710	2100	2.5E
9	0028	0238	1.4F
Su	0518	0915	2.4E
	1231	1504	1.9F
	1809	2153	2.7E
10	0123	0334	1.5F
M	0620	1009	2.6E
	1323	1559	2.1F
	1906	2245	2.9E
11	0216	0431	1.6F
Tu	0720	1100	2.7E
	1415	1654	2.2F
	2002	2338	3.1E
12	0308	0526	1.8F
W	0818	1155	2.8E
	1507	1746	2.3F
	2056		
13		0030	3.2E
Th	0400	0619	1.8F
	0915	1249	2.9E
	1601	1839	2.3F
	2149		
14		0123	3.3E
F	0452	0712	1.9F
	1012	1342	2.9E
	1656	1930	2.3F
	2242		
15		0216	3.2E
Sa	0545	0806	1.9F
	1109	1437	2.8E
	1752	2025	2.2F
	2335		
16		0309	3.1E
Su	0638	0859	1.8F
	1206	1531	2.8E
	1851	2118	2.0F
17	0029	0402	3.0E
M	0732	0951	1.8F
	1305	1630	2.6E
	1951	2213	1.7F
18	0123	0456	2.8E
Tu	0826	1048	1.6F
	1404	1727	2.5E
	2052	2310	1.5F
19	0218	0553	2.6E
W	0921	1143	1.5F
	1504	1827	2.4E
	2155		
20		0006	1.3F
Th	0314	0648	2.5E
	1016	1237	1.5F
	1603	1924	2.4E
	2257		
21		0102	1.1F
F	0410	0741	2.3E
	1109	1332	1.4F
	1659	2023	2.3E
	2358		
22		0158	1.0F
Sa	0506	0837	2.2E
	1200	1423	1.4F
	1752	2116	2.3E
23	0054	0255	0.9F
Su	0558	0926	2.2E
	1249	1512	1.4F
	1841	2204	2.4E
24	0145	0343	0.9F
M	0647	1017	2.1E
	1335	1559	1.4F
	1925	2253	2.4E
25	0231	0431	0.9F
Tu	0733	1100	2.1E
	1419	1641	1.4F
	2006	2336	2.4E
26	0314	0512	1.0F
W	0814	1145	2.1E
	1502	1723	1.5F
	2042		
27		0017	2.5E
Th	0354	0555	1.0F
	0852	1226	2.1E
	1542	1804	1.5F
	2117		
28		0056	2.5E
F	0433	0634	1.1F
	0929	1308	2.1E
	1623	1845	1.5F
	2149		
29		0135	2.5E
Sa	0510	0715	1.2F
	1004	1348	2.1E
	1704	1926	1.5F
	2221		
30		0215	2.5E
Su	0548	0756	1.3F
	1040	1431	2.1E
	1746	2009	1.5F
	2254		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0256	2.4E
M	0626	0837	1.4F
	1118	1515	2.1E
	1830	2052	1.5F
	2330		
2		0338	2.4E
Tu	0705	0922	1.4F
	1201	1601	2.1E
	1917	2140	1.4F
3	0010	0421	2.3E
W	0747	1007	1.5F
	1247	1648	2.1E
	2008	2229	1.4F
4	0054	0508	2.3E
Th	0831	1058	1.5F
	1338	1740	2.2E
	2103	2318	1.3F
5	0144	0601	2.3E
F	0920	1148	1.6F
	1435	1835	2.2E
	2201		
6		0015	1.3F
Sa	0239	0652	2.3E
	1012	1243	1.7F
	1536	1932	2.4E
	2302		
7		0110	1.3F
Su	0341	0750	2.3E
	1107	1340	1.8F
	1641	2029	2.5E
8	0002	0210	1.3F
M	0448	0849	2.4E
	1203	1439	1.9F
	1745	2127	2.7E
9	0100	0311	1.4F
Tu	0556	0945	2.5E
	1300	1537	2.1F
	1848	2225	2.9E
10	0156	0409	1.6F
W	0703	1041	2.7E
	1357	1632	2.2F
	1947	2320	3.1E
11	0250	0506	1.7F
Th	0805	1138	2.8E
	1452	1729	2.3F
	2043		
12		0013	3.2E
F	0342	0601	1.9F
	0904	1233	2.9E
	1547	1822	2.3F
	2136		
13		0104	3.3E
Sa	0433	0654	1.9F
	1000	1326	3.0E
	1641	1914	2.3F
	2227		
14		0156	3.3E
Su	0523	0745	2.0F
	1054	1417	2.9E
	1736	2006	2.1F
	2317		
15		0247	3.2E
M	0613	0837	1.9F
	1148	1510	2.9E
	1831	2056	1.9F
16	0006	0338	3.0E
Tu	0704	0927	1.8F
	1241	1604	2.7E
	1928	2147	1.7F
17	0055	0429	2.8E
W	0755	1016	1.7F
	1335	1659	2.5E
	2026	2238	1.4F
18	0144	0520	2.5E
Th	0847	1109	1.5F
	1430	1756	2.4E
	2126	2332	1.2F
19	0235	0614	2.3E
F	0940	1202	1.4F
	1526	1851	2.3E
	2228		
20		0025	1.0F
Sa	0328	0707	2.2E
	1035	1253	1.3F
	1622	1948	2.2E
	2329		
21		0122	0.8F
Su	0425	0804	2.0E
	1128	1347	1.2F
	1717	2044	2.2E
22	0026	0220	0.8F
M	0522	0857	2.0E
	1220	1438	1.2F
	1808	2137	2.2E
23	0119	0311	0.8F
Tu	0616	0948	2.0E
	1309	1530	1.2F
	1856	2224	2.3E
24	0206	0402	0.8F
W	0706	1034	2.0E
	1356	1615	1.3F
	1938	2309	2.4E
25	0248	0447	0.9F
Th	0751	1121	2.1E
	1439	1700	1.4F
	2017	2350	2.4E
26	0327	0529	1.1F
F	0831	1202	2.1E
	1520	1741	1.5F
	2052		
27		0031	2.5E
Sa	0404	0609	1.2F
	0907	1243	2.2E
	1600	1821	1.5F
	2124		
28		0109	2.5E
Su	0439	0650	1.3F
	0941	1324	2.3E
	1640	1902	1.6F
	2156		
29		0145	2.5E
M	0514	0729	1.5F
	1016	1405	2.3E
	1721	1945	1.6F
	2229		
30		0224	2.5E
Tu	0550	0809	1.6F
	1053	1446	2.3E
	1803	2026	1.6F
	2304		
31		0306	2.5E
W	0628	0852	1.6F
	1133	1528	2.3E
	1849	2113	1.5F
	2343		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0350	2.4E
Th	0709	0937	1.7F
	1218	1618	2.3E
	1939	2150	1.5F
2	0026	0435	2.3E
F	0755	1026	1.7F
	1309	1709	2.3E
	2034	2251	1.4F
3	0116	0526	2.3E
Sa	0846	1117	1.7F
	1405	1806	2.3E
	2134	2347	1.3F
4	0212	0624	2.3E
Su	0942	1216	1.7F
	1509	1906	2.4E
	2237		
5		0046	1.3F
M	0317	0724	2.3E
	1042	1316	1.8F
	1618	2007	2.5E
	2341		
6		0149	1.3F
Tu	0430	0826	2.4E
	1144	1415	1.8F
	1728	2109	2.7E
7	0041	0250	1.4F
W	0544	0929	2.5E
	1245	1518	1.9F
	1833	2206	2.9E
8	0138	0352	1.6F
Th	0653	1027	2.7E
	1344	1615	2.1F
	1933	2303	3.0E
9	0231	0449	1.8F
F	0755	1123	2.9E
	1439	1713	2.2F
	2028	2355	3.2E
10	0321	0544	1.9F
Sa	0851	1216	3.0E
	1533	1805	2.2F
	2119		
11		0044	3.2E
Su	0410	0635	2.0F
	0944	1307	3.1E
	1626	1855	2.1F
	2208		
12		0133	3.2E
M	0457	0722	2.0F
	1034	1355	3.0E
	1717	1944	2.0F
	2254		
13		0221	3.1E
Tu	0544	0809	2.0F
	1122	1446	2.9E
	1809	2030	1.8F
	2338		
14		0309	2.9E
W	0632	0856	1.9F
	1210	1535	2.7E
	1902	2118	1.6F
15	0021	0355	2.6E
Th	0720	0944	1.7F
	1258	1626	2.5E
	1957	2204	1.3F
16	0105	0446	2.4E
F	0810	1032	1.5F
	1348	1721	2.3E
	2054	2255	1.1F
17	0150	0537	2.2E
Sa	0903	1118	1.3F
	1440	1815	2.2E
	2155	2346	0.9F
18	0241	0631	2.0E
Su	0959	1214	1.2F
	1537	1914	2.1E
	2256		
19		0045	0.7F
M	0341	0727	1.9E
	1056	1308	1.1F
	1634	2010	2.1E
	2354		
20		0141	0.7F
Tu	0445	0826	1.9E
	1151	1404	1.1F
	1730	2104	2.1E
21	0046	0239	0.8F
W	0545	0920	1.9E
	1243	1458	1.1F
	1821	2156	2.2E
22	0133	0330	0.9F
Th	0639	1009	2.0E
	1331	1545	1.2F
	1906	2239	2.3E
23	0214	0418	1.0F
F	0725	1054	2.1E
	1415	1631	1.4F
	1947	2320	2.4E
24	0253	0459	1.2F
Sa	0805	1137	2.3E
	1456	1715	1.5F
	2023	2359	2.5E
25	0329	0539	1.4F
Su	0841	1217	2.4E
	1536	1755	1.6F
	2056		
26		0037	2.6E
M	0404	0620	1.5F
	0915	1257	2.5E
	1616	1837	1.6F
	2129		
27		0116	2.6E
Tu	0438	0659	1.7F
	0950	1336	2.5E
	1656	1920	1.7F
	2203		
28		0155	2.6E
W	0515	0740	1.8F
	1028	1417	2.5E
	1739	2001	1.7F
	2239		
29		0238	2.5E
Th	0553	0823	1.8F
	1109	1502	2.5E
	1825	2046	1.6F
	2319		
30		0321	2.5E
F	0636	0910	1.8F
	1154	1551	2.5E
	1916	2136	1.5F
31	0004	0409	2.4E
Sa	0725	1001	1.8F
	1245	1644	2.5E
	2012	2229	1.4F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

SAVANNAH RIVER ENTRANCE (between jetties), GEORGIA, 1991

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0056	0504	2.3E
	0820	1054	1.7F
	1343	1744	2.4E
	2114	2324	1.3F
2 M	0155	0603	2.2E
	0921	1152	1.7F
	1449	1845	2.4E
	2219		
3 Tu		0027	1.3F
	0306	0708	2.3E
	1026	1255	1.7F
	1602	1949	2.5E
	2323		
4 W		0131	1.3F
	0424	0812	2.4E
	1132	1400	1.7F
	1714	2052	2.6E
5 Th	0023	0236	1.4F
	0539	0914	2.5E
	1234	1503	1.8F
	1819	2150	2.8E
6 F	0118	0337	1.6F
	0645	1013	2.7E
	1333	1602	1.9F
	1918	2243	3.0E
7 Sa	0210	0431	1.8F
	0743	1106	2.9E
	1427	1657	2.0F
	2011	2334	3.1E
8 Su	0258	0523	1.9F
	0835	1158	3.0E
	1519	1748	2.0F
	2059		
9 M		0021	3.1E
	0344	0611	2.0F
	0924	1247	3.1E
	1609	1834	2.0F
	2144		
10 Tu		0106	3.0E
	0429	0657	2.0F
	1009	1334	3.0E
	1657	1918	1.8F
	2226		
11 W		0152	2.9E
	0513	0739	2.0F
	1053	1418	2.9E
	1746	2001	1.7F
	2306		
12 Th		0238	2.7E
	0558	0824	1.8F
	1135	1506	2.7E
	1835	2047	1.5F
	2344		
13 F		0322	2.5E
	0644	0907	1.6F
	1217	1555	2.5E
	1926	2131	1.2F
14 Sa	0024	0410	2.2E
	0733	0953	1.5F
	1301	1643	2.3E
	2021	2220	1.0F
15 Su	0106	0501	2.0E
	0825	1042	1.3F
	1349	1739	2.1E
	2119	2311	0.9F
16 M	0156	0557	1.9E
	0922	1133	1.1F
	1443	1835	2.0E
	2218		
17 Tu		0007	0.8F
	0258	0655	1.8E
	1021	1228	1.0F
	1542	1931	2.0E
	2315		
18 W		0104	0.8F
	0406	0754	1.8E
	1119	1325	1.0F
	1642	2026	2.1E
19 Th	0007	0203	0.8F
	0511	0849	1.9E
	1213	1423	1.1F
	1737	2117	2.2E
20 F	0053	0255	1.0F
	0605	0938	2.0E
	1302	1514	1.2F
	1826	2204	2.3E
21 Sa	0135	0342	1.2F
	0652	1024	2.2E
	1347	1602	1.3F
	1909	2247	2.4E
22 Su	0213	0425	1.4F
	0733	1107	2.4E
	1430	1646	1.5F
	1948	2325	2.5E
23 M	0250	0509	1.6F
	0811	1148	2.5E
	1510	1729	1.6F
	2025		
24 Tu		0005	2.6E
	0326	0549	1.8F
	0847	1227	2.7E
	1551	1811	1.7F
	2101		
25 W		0047	2.6E
	0403	0630	1.9F
	0925	1310	2.7E
	1633	1854	1.7F
	2138		
26 Th		0127	2.6E
	0441	0713	2.0F
	1005	1352	2.8E
	1718	1939	1.7F
	2218		
27 F		0209	2.6E
	0523	0800	2.0F
	1049	1441	2.7E
	1805	2024	1.7F
	2301		
28 Sa		0255	2.5E
	0610	0846	2.0F
	1136	1529	2.7E
	1858	2115	1.6F
	2350		
29 Su		0348	2.4E
	0703	0939	1.9F
	1229	1626	2.6E
	1955	2210	1.5F
30 M	0046	0445	2.3E
	0802	1034	1.8F
	1329	1725	2.5E
	2057	2308	1.4F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0151	0547	2.3E
	0907	1133	1.6F
	1436	1828	2.5E
	2202		
2 W		0011	1.3F
	0306	0653	2.3E
	1015	1239	1.6F
	1549	1933	2.5E
	2304		
3 Th		0116	1.4F
	0423	0758	2.4E
	1122	1344	1.6F
	1659	2034	2.6E
4 F	0003	0220	1.5F
	0533	0900	2.6E
	1224	1446	1.6F
	1803	2129	2.7E
5 Sa	0057	0320	1.6F
	0634	0959	2.8E
	1321	1545	1.7F
	1859	2222	2.8E
6 Su	0146	0413	1.8F
	0728	1050	2.9E
	1414	1637	1.7F
	1950	2312	2.9E
7 M	0233	0500	1.9F
	0817	1139	3.0E
	1504	1726	1.7F
	2036	2357	2.9E
8 Tu	0317	0545	2.0F
	0902	1224	3.0E
	1551	1811	1.7F
	2118		
9 W		0042	2.8E
	0400	0628	1.9F
	0944	1309	2.9E
	1637	1851	1.6F
	2157		
10 Th		0123	2.7E
	0442	0709	1.9F
	1023	1351	2.8E
	1723	1935	1.5F
	2234		
11 F		0207	2.5E
	0525	0750	1.7F
	1101	1437	2.6E
	1809	2017	1.3F
	2309		
12 Sa		0250	2.3E
	0609	0833	1.6F
	1138	1523	2.4E
	1857	2102	1.2F
	2346		
13 Su		0336	2.1E
	0657	0918	1.4F
	1216	1610	2.3E
	1947	2148	1.0F
14 M	0028	0427	1.9E
	0748	1005	1.3F
	1259	1701	2.1E
	2041	2237	0.9F
15 Tu	0117	0521	1.8E
	0844	1056	1.1F
	1347	1756	2.0E
	2136	2330	0.9F
16 W	0216	0618	1.8E
	0943	1152	1.0F
	1443	1850	2.0E
	2230		
17 Th		0027	0.9F
	0323	0715	1.8E
	1042	1247	1.0F
	1543	1945	2.1E
	2321		
18 F		0121	1.0F
	0427	0811	1.9E
	1138	1344	1.0F
	1642	2034	2.1E
19 Sa	0007	0214	1.1F
	0523	0902	2.1E
	1229	1435	1.2F
	1736	2124	2.3E
20 Su	0050	0303	1.3F
	0612	0950	2.3E
	1316	1526	1.3F
	1824	2208	2.4E
21 M	0131	0350	1.5F
	0657	1035	2.5E
	1401	1614	1.4F
	1908	2251	2.5E
22 Tu	0210	0435	1.8F
	0739	1119	2.7E
	1444	1700	1.6F
	1951	2334	2.6E
23 W	0249	0520	1.9F
	0820	1203	2.8E
	1528	1746	1.7F
	2033		
24 Th		0016	2.6E
	0330	0603	2.1F
	0903	1245	2.9E
	1612	1831	1.8F
	2116		
25 F		0102	2.7E
	0413	0649	2.2F
	0947	1332	3.0E
	1659	1918	1.8F
	2201		
26 Sa		0148	2.6E
	0500	0736	2.2F
	1034	1421	2.9E
	1749	2007	1.7F
	2250		
27 Su		0238	2.6E
	0551	0827	2.1F
	1124	1512	2.9E
	1843	2059	1.6F
	2344		
28 M		0332	2.5E
	0647	0920	2.0F
	1218	1607	2.8E
	1940	2154	1.5F
29 Tu	0044	0432	2.4E
	0748	1017	1.8F
	1319	1708	2.7E
	2040	2255	1.5F
30 W	0152	0533	2.4E
	0855	1117	1.6F
	1424	1809	2.6E
	2142	2356	1.4F
31 Th	0305	0638	2.4E
	1003	1222	1.5F
	1533	1912	2.6E
	2242		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 260° True E-Ebb, Dir. 080° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0059	1.4F
F	0416	0744	2.4E
	1109	1325	1.4F
	1640	2011	2.6E
	2339		
2		0200	1.5F
Sa	0520	0845	2.6E
	1211	1428	1.4F
	1741	2107	2.6E
3	0032	0258	1.6F
Su	0618	0940	2.7E
	1308	1527	1.4F
	1836	2158	2.7E
4	0121	0350	1.7F
M	0710	1031	2.8E
	1400	1618	1.4F
	1926	2247	2.7E
5	0207	0438	1.8F
Tu	0757	1119	2.8E
	1449	1703	1.4F
	2011	2332	2.6E
6	0251	0519	1.8F
W	0839	1204	2.8E
	1535	1747	1.4F
	2051		
7		0016	2.5E
Th	0333	0600	1.8F
	0919	1247	2.8E
	1619	1827	1.4F
	2129		
8		0058	2.4E
F	0414	0641	1.7F
	0955	1328	2.7E
	1702	1906	1.3F
	2205		
9		0140	2.3E
Sa	0456	0721	1.7F
	1030	1411	2.6E
	1745	1949	1.2F
	2240		
10		0222	2.2E
Su	0539	0802	1.6F
	1104	1454	2.4E
	1829	2030	1.2F
	2317		
11		0307	2.0E
M	0624	0847	1.4F
	1139	1538	2.3E
	1915	2117	1.1F
	2357		
12		0354	1.9E
Tu	0713	0931	1.3F
	1217	1626	2.2E
	2003	2204	1.1F
13	0044	0445	1.8E
W	0807	1022	1.2F
	1301	1715	2.1E
	2052	2255	1.0F
14	0137	0540	1.8E
Th	0903	1115	1.1F
	1349	1807	2.1E
	2142	2347	1.1F
15	0236	0635	1.8E
F	1001	1206	1.1F
	1443	1858	2.1E
	2231		
16		0042	1.1F
Sa	0336	0729	1.9E
	1057	1301	1.1F
	1541	1952	2.1E
	2319		
17		0133	1.3F
Su	0434	0823	2.1E
	1151	1357	1.1F
	1639	2041	2.2E
18	0004	0224	1.5F
M	0528	0914	2.3E
	1242	1450	1.3F
	1734	2129	2.3E
19	0048	0315	1.7F
Tu	0619	1002	2.5E
	1331	1541	1.4F
	1827	2215	2.5E
20	0132	0403	1.9F
W	0708	1051	2.7E
	1418	1632	1.5F
	1918	2303	2.6E
21	0217	0452	2.1F
Th	0756	1137	2.9E
	1506	1720	1.7F
	2008	2352	2.7E
22	0303	0541	2.2F
F	0844	1225	3.0E
	1554	1811	1.8F
	2059		
23		0039	2.7E
Sa	0351	0630	2.3F
	0933	1313	3.1E
	1643	1900	1.8F
	2150		
24		0131	2.7E
Su	0442	0719	2.3F
	1023	1405	3.1E
	1734	1953	1.8F
	2244		
25		0222	2.7E
M	0536	0810	2.2F
	1115	1456	3.1E
	1827	2046	1.8F
	2341		
26		0319	2.6E
Tu	0634	0906	2.0F
	1209	1552	2.9E
	1922	2141	1.7F
27	0042	0416	2.6E
W	0735	1003	1.8F
	1307	1648	2.8E
	2019	2237	1.6F
28	0146	0517	2.5E
Th	0839	1101	1.6F
	1408	1748	2.7E
	2118	2337	1.6F
29	0253	0620	2.5E
F	0945	1202	1.4F
	1511	1846	2.6E
	2216		
30		0037	1.5F
Sa	0358	0723	2.5E
	1051	1303	1.3F
	1614	1945	2.5E
	2312		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0136	1.5F
Su	0500	0822	2.5E
	1153	1404	1.2F
	1714	2042	2.5E
2	0005	0235	1.5F
M	0557	0920	2.6E
	1252	1500	1.2F
	1809	2135	2.4E
3	0055	0324	1.6F
Tu	0648	1011	2.6E
	1345	1556	1.1F
	1900	2222	2.4E
4	0143	0412	1.6F
W	0735	1100	2.6E
	1433	1641	1.1F
	1946	2309	2.3E
5	0227	0453	1.6F
Th	0818	1143	2.6E
	1518	1723	1.1F
	2028	2352	2.3E
6	0309	0536	1.6F
F	0856	1224	2.6E
	1601	1804	1.2F
	2106		
7		0034	2.2E
Sa	0350	0614	1.6F
	0931	1305	2.6E
	1641	1845	1.2F
	2142		
8		0117	2.2E
Su	0431	0655	1.5F
	1004	1345	2.5E
	1721	1924	1.2F
	2217		
9		0158	2.1E
M	0513	0736	1.5F
	1036	1426	2.5E
	1801	2005	1.2F
	2253		
10		0240	2.1E
Tu	0556	0819	1.5F
	1109	1509	2.4E
	1842	2050	1.2F
	2332		
11		0325	2.0E
W	0642	0902	1.4F
	1144	1551	2.3E
	1924	2134	1.2F
12	0013	0413	2.0E
Th	0730	0947	1.3F
	1223	1636	2.2E
	2008	2221	1.2F
13	0100	0502	1.9E
F	0823	1036	1.2F
	1306	1725	2.2E
	2054	2312	1.3F
14	0151	0553	1.9E
Sa	0918	1127	1.2F
	1354	1812	2.1E
	2141	2359	1.3F
15	0246	0648	2.0E
Su	1015	1223	1.1F
	1448	1908	2.1E
	2230		
16		0054	1.4F
M	0345	0743	2.1E
	1112	1318	1.1F
	1546	1959	2.2E
	2319		
17		0148	1.6F
Tu	0445	0837	2.3E
	1208	1413	1.2F
	1648	2052	2.3E
18	0010	0239	1.7F
W	0544	0931	2.5E
	1302	1512	1.3F
	1750	2146	2.4E
19	0100	0334	1.9F
Th	0641	1022	2.7E
	1354	1606	1.5F
	1851	2237	2.6E
20	0151	0427	2.1F
F	0735	1115	3.0E
	1445	1659	1.6F
	1950	2331	2.7E
21	0242	0520	2.2F
Sa	0829	1206	3.1E
	1535	1752	1.8F
	2046		
22		0021	2.8E
Su	0334	0612	2.3F
	0921	1256	3.2E
	1625	1845	1.9F
	2142		
23		0115	2.9E
M	0428	0703	2.3F
	1013	1349	3.3E
	1716	1936	2.0F
	2237		
24		0208	2.9E
Tu	0523	0756	2.3F
	1105	1440	3.2E
	1807	2030	1.9F
	2333		
25		0302	2.8E
W	0619	0851	2.1F
	1157	1531	3.1E
	1900	2123	1.9F
26	0030	0357	2.8E
Th	0718	0944	1.9F
	1250	1626	2.9E
	1954	2216	1.8F
27	0129	0456	2.6E
F	0819	1039	1.6F
	1345	1722	2.7E
	2049	2312	1.7F
28	0230	0557	2.5E
Sa	0923	1135	1.4F
	1442	1817	2.5E
	2145		
29		0006	1.5F
Su	0332	0657	2.4E
	1028	1234	1.2F
	1541	1916	2.4E
	2242		
30		0105	1.5F
M	0432	0754	2.4E
	1132	1335	1.0F
	1641	2013	2.3E
	2337		
31		0203	1.4F
Tu	0530	0853	2.4E
	1232	1436	0.9F
	1739	2108	2.2E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu		0105	2.8E
	0508	0751	3.0F
	1054	1358	2.8E
	1804	2018	2.2F
	2259		
2 W		0200	2.8E
	0602	0841	2.9F
	1143	1447	2.8E
	1853	2109	2.2F
	2354		
3 Th		0253	2.7E
	0657	0932	2.7F
	1230	1533	2.7E
	1942	2201	2.2F
4 F	0048	0346	2.5E
	0753	1022	2.4F
	1316	1617	2.6E
	2032	2252	2.2F
5 Sa	0142	0436	2.3E
	0851	1112	2.1F
	1402	1702	2.4E
	2123	2344	2.1F
6 Su	0236	0531	2.1E
	0951	1203	1.8F
	1448	1748	2.2E
	2216		
7 M		0036	1.9F
	0332	0627	1.9E
	1053	1256	1.5F
	1535	1835	2.0E
	2310		
8 Tu		0130	1.8F
	0429	0730	1.7E
	1156	1352	1.3F
	1625	1925	1.9E
9 W	0005	0225	1.8F
	0526	0844	1.6E
	1257	1448	1.1F
	1716	2019	1.8E
10 Th	0058	0321	1.8F
	0622	1003	1.6E
	1354	1544	1.0F
	1809	2115	1.7E
11 F	0149	0413	1.8F
	0716	1112	1.6E
	1447	1635	1.1F
	1902	2210	1.7E
12 Sa	0237	0504	1.9F
	0805	1154	1.7E
	1535	1726	1.1F
	1953	2258	1.8E
13 Su	0323	0549	2.0F
	0852	1221	1.8E
	1620	1812	1.2F
	2041	2343	1.9E
14 M	0405	0633	2.1F
	0935	1250	1.9E
	1701	1856	1.3F
	2127		
15 Tu		0024	2.0E
	0446	0716	2.1F
	1015	1316	2.1E
	1740	1938	1.5F
	2210		
16 W		0103	2.1E
	0525	0758	2.2F
	1053	1345	2.2E
	1816	2020	1.6F
	2253		
17 Th		0142	2.3E
	0603	0839	2.2F
	1130	1418	2.3E
	1850	2102	1.7F
	2335		
18 F		0223	2.4E
	0641	0922	2.1F
	1207	1453	2.4E
	1922	2146	1.8F
19 Sa	0018	0306	2.4E
	0721	1004	2.0F
	1243	1532	2.5E
	1954	2231	1.9F
20 Su	0105	0351	2.4E
	0805	1049	1.8F
	1320	1615	2.5E
	2027	2318	1.9F
21 M	0155	0441	2.3E
	0857	1138	1.6F
	1401	1700	2.5E
	2108		
22 Tu		0009	2.0F
	0249	0532	2.3E
	1000	1231	1.5F
	1446	1749	2.5E
	2158		
23 W		0101	2.0F
	0349	0629	2.1E
	1111	1324	1.3F
	1538	1841	2.4E
	2259		
24 Th		0158	2.1F
	0452	0730	2.1E
	1221	1423	1.3F
	1638	1940	2.4E
25 F	0005	0255	2.2F
	0557	0840	2.0E
	1326	1523	1.3F
	1743	2043	2.4E
26 Sa	0111	0356	2.4F
	0700	0955	2.1E
	1424	1622	1.5F
	1850	2152	2.4E
27 Su	0213	0454	2.5F
	0759	1101	2.3E
	1518	1722	1.7F
	1955	2300	2.5E
28 M	0311	0549	2.7F
	0855	1203	2.5E
	1607	1817	1.9F
	2056		
29 Tu		0003	2.6E
	0406	0644	2.8F
	0946	1256	2.7E
	1655	1909	2.2F
	2153		
30 W		0100	2.7E
	0459	0734	2.8F
	1034	1343	2.8E
	1741	2000	2.3F
	2246		
31 Th		0153	2.8E
	0551	0822	2.7F
	1120	1426	2.8E
	1826	2048	2.4F
	2337		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0241	2.7E
	0642	0909	2.5F
	1203	1507	2.7E
	1912	2136	2.4F
2 Sa	0027	0325	2.6E
	0733	0957	2.3F
	1245	1545	2.6E
	1958	2223	2.3F
3 Su	0116	0411	2.4E
	0826	1043	2.0F
	1327	1624	2.4E
	2046	2309	2.1F
4 M	0205	0454	2.1E
	0921	1131	1.7F
	1409	1702	2.2E
	2136		
5 Tu		0000	2.0F
	0256	0541	1.9E
	1020	1220	1.4F
	1453	1745	2.0E
	2230		
6 W		0051	1.8F
	0349	0630	1.7E
	1122	1313	1.1F
	1540	1834	1.9E
	2327		
7 Th		0146	1.7F
	0444	0730	1.5E
	1224	1409	1.0F
	1633	1925	1.7E
8 F	0024	0243	1.6F
	0542	0842	1.4E
	1324	1505	0.9F
	1730	2022	1.6E
9 Sa	0119	0337	1.6F
	0638	1006	1.5E
	1418	1603	1.0F
	1829	2128	1.6E
10 Su	0210	0432	1.7F
	0732	1107	1.6E
	1506	1657	1.1F
	1925	2229	1.7E
11 M	0258	0520	1.8F
	0821	1142	1.8E
	1549	1745	1.3F
	2017	2320	1.9E
12 Tu	0343	0608	2.0F
	0905	1214	1.9E
	1629	1828	1.5F
	2104		
13 W		0003	2.1E
	0425	0649	2.1F
	0946	1245	2.1E
	1705	1912	1.7F
	2149		
14 Th		0044	2.3E
	0505	0732	2.2F
	1025	1316	2.3E
	1739	1953	1.9F
	2232		
15 F		0123	2.4E
	0544	0813	2.2F
	1101	1349	2.4E
	1810	2034	2.0F
	2315		
16 Sa		0205	2.5E
	0623	0856	2.1F
	1137	1426	2.6E
	1840	2119	2.2F
	2359		
17 Su		0248	2.6E
	0703	0939	2.0F
	1213	1505	2.7E
	1911	2202	2.2F
18 M	0045	0333	2.6E
	0748	1026	1.9F
	1251	1548	2.7E
	1947	2250	2.3F
19 Tu	0135	0420	2.5E
	0840	1113	1.7F
	1333	1634	2.7E
	2032	2341	2.2F
20 W	0228	0513	2.4E
	0943	1204	1.5F
	1421	1723	2.6E
	2129		
21 Th		0036	2.2F
	0327	0606	2.2E
	1053	1302	1.3F
	1516	1818	2.4E
	2238		
22 F		0133	2.2F
	0431	0710	2.0E
	1202	1401	1.3F
	1620	1921	2.3E
	2351		
23 Sa		0235	2.2F
	0536	0823	2.0E
	1306	1504	1.4F
	1730	2029	2.2E
24 Su	0101	0336	2.2F
	0639	0941	2.0E
	1404	1606	1.5F
	1840	2144	2.3E
25 M	0205	0438	2.3F
	0739	1054	2.2E
	1456	1706	1.8F
	1946	2258	2.4E
26 Tu	0303	0533	2.4F
	0834	1152	2.4E
	1545	1801	2.0F
	2045		
27 W		0002	2.5E
	0357	0627	2.5F
	0924	1241	2.5E
	1630	1852	2.3F
	2140		
28 Th		0053	2.6E
	0448	0716	2.5F
	1010	1322	2.6E
	1714	1939	2.4F
	2230		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

ST. JOHNS RIVER ENTRANCE, FLORIDA, 1991

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0142	2.7E
F	0537	0801	2.4F
	1052	1400	2.7E
	1757	2022	2.5F
	2317		
2		0225	2.6E
Sa	0625	0844	2.3F
	1133	1434	2.6E
	1840	2108	2.4F
3	0003	0301	2.5E
Su	0713	0928	2.1F
	1212	1509	2.5E
	1923	2151	2.3F
4	0047	0339	2.3E
M	0801	1011	1.8F
	1251	1542	2.4E
	2008	2237	2.2F
5	0132	0415	2.1E
Tu	0853	1100	1.6F
	1331	1623	2.2E
	2055	2324	1.9F
6	0218	0459	1.9E
W	0949	1147	1.3F
	1413	1704	2.0E
	2148		
7		0014	1.7F
Th	0308	0548	1.7E
	1048	1239	1.1F
	1500	1751	1.8E
	2247		
8		0107	1.6F
F	0402	0637	1.6E
	1150	1334	1.0F
	1555	1842	1.7E
	2347		
9		0203	1.5F
Sa	0459	0736	1.5E
	1249	1430	0.9F
	1655	1942	1.6E
10	0046	0302	1.5F
Su	0557	0850	1.5E
	1342	1528	1.0F
	1757	2049	1.6E
11	0141	0357	1.6F
M	0652	1000	1.6E
	1429	1625	1.2F
	1856	2153	1.7E
12	0231	0448	1.7F
Tu	0743	1048	1.8E
	1511	1714	1.4F
	1950	2249	1.9E
13	0317	0536	1.9F
W	0828	1127	2.0E
	1549	1757	1.7F
	2039	2336	2.2E
14	0400	0620	2.0F
Th	0911	1204	2.2E
	1624	1841	1.9F
	2125		
15		0020	2.4E
F	0442	0703	2.1F
	0950	1241	2.4E
	1657	1924	2.2F
	2210		
16		0103	2.6E
Sa	0523	0746	2.1F
	1028	1318	2.6E
	1728	2007	2.4F
	2255		
17		0146	2.7E
Su	0604	0830	2.1F
	1106	1358	2.7E
	1800	2051	2.5F
	2340		
18		0229	2.8E
M	0647	0914	2.0F
	1145	1439	2.8E
	1836	2138	2.6F
19	0027	0314	2.7E
Tu	0735	1001	1.9F
	1227	1522	2.8E
	1919	2225	2.5F
20	0117	0402	2.6E
W	0829	1051	1.7F
	1313	1611	2.7E
	2011	2318	2.4F
21	0211	0455	2.4E
Th	0931	1144	1.5F
	1405	1704	2.5E
	2114		
22		0013	2.3F
F	0309	0552	2.2E
	1037	1243	1.4F
	1505	1801	2.3E
	2228		
23		0113	2.2F
Sa	0411	0655	2.1E
	1143	1344	1.4F
	1613	1907	2.2E
	2343		
24		0215	2.1F
Su	0515	0812	2.0E
	1244	1447	1.5F
	1724	2024	2.1E
25	0052	0318	2.1F
M	0617	0928	2.0E
	1340	1550	1.7F
	1833	2147	2.1E
26	0155	0419	2.1F
Tu	0715	1038	2.2E
	1431	1647	1.9F
	1935	2258	2.3E
27	0253	0517	2.1F
W	0808	1130	2.3E
	1519	1742	2.2F
	2032	2356	2.4E
28	0345	0608	2.2F
Th	0856	1215	2.4E
	1603	1828	2.4F
	2123		
29		0044	2.5E
F	0435	0653	2.2F
	0941	1255	2.5E
	1646	1915	2.5F
	2211		
30		0126	2.5E
Sa	0522	0736	2.1F
	1022	1328	2.5E
	1728	1958	2.5F
	2255		
31		0202	2.5E
Su	0607	0819	2.0F
	1101	1359	2.4E
	1809	2039	2.4F
	2337		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0237	2.4E
M	0653	0900	1.8F
	1139	1432	2.4E
	1850	2122	2.3F
2	0019	0308	2.3E
Tu	0739	0945	1.6F
	1217	1507	2.3E
	1932	2205	2.1F
3	0100	0345	2.1E
W	0827	1028	1.4F
	1257	1548	2.1E
	2017	2252	1.9F
4	0144	0424	2.0E
Th	0920	1117	1.2F
	1339	1629	2.0E
	2108	2341	1.7F
5	0231	0509	1.8E
F	1016	1206	1.1F
	1427	1715	1.8E
	2206		
6		0033	1.6F
Sa	0321	0600	1.7E
	1114	1301	1.0F
	1522	1808	1.7E
	2308		
7		0127	1.5F
Su	0416	0655	1.6E
	1209	1357	1.0F
	1623	1907	1.6E
8	0010	0223	1.4F
M	0512	0753	1.6E
	1300	1452	1.1F
	1725	2012	1.7E
9	0107	0318	1.5F
Tu	0607	0852	1.7E
	1345	1546	1.3F
	1825	2114	1.8E
10	0159	0412	1.6F
W	0658	0947	1.9E
	1426	1635	1.6F
	1920	2213	2.0E
11	0248	0500	1.7F
Th	0745	1034	2.1E
	1504	1723	1.9F
	2011	2304	2.2E
12	0333	0549	1.8F
F	0829	1120	2.3E
	1539	1812	2.2F
	2100	2353	2.5E
13	0417	0632	1.9F
Sa	0912	1203	2.5E
	1613	1853	2.5F
	2147		
14		0038	2.6E
Su	0501	0718	2.0F
	0954	1246	2.7E
	1649	1939	2.7F
	2234		
15		0124	2.8E
M	0546	0804	2.0F
	1036	1329	2.8E
	1728	2026	2.8F
	2321		
16		0211	2.8E
Tu	0633	0852	1.9F
	1120	1416	2.9E
	1811	2113	2.8F
17	0010	0258	2.8E
W	0723	0941	1.9F
	1207	1503	2.8E
	1901	2204	2.7F
18	0101	0349	2.7E
Th	0818	1032	1.8F
	1259	1552	2.7E
	2000	2258	2.5F
19	0155	0444	2.5E
F	0917	1127	1.7F
	1356	1650	2.5E
	2107	2353	2.3F
20	0251	0540	2.3E
Sa	1019	1225	1.6F
	1500	1753	2.3E
	2220		
21		0054	2.1F
Su	0350	0645	2.2E
	1120	1327	1.6F
	1607	1902	2.1E
	2332		
22		0156	2.0F
M	0451	0756	2.1E
	1218	1430	1.7F
	1716	2024	2.0E
23	0039	0258	1.9F
Tu	0550	0907	2.1E
	1312	1531	1.9F
	1821	2146	2.1E
24	0141	0357	1.9F
W	0645	1012	2.1E
	1403	1629	2.1F
	1921	2254	2.2E
25	0217	0454	1.8F
Th	0737	1101	2.2E
	1451	1719	2.2F
	2015	2349	2.3E
26	0330	0543	1.8F
F	0824	1146	2.2E
	1536	1805	2.3F
	2104		
27		0034	2.3E
Sa	0419	0628	1.8F
	0908	1221	2.3E
	1619	1848	2.4F
	2149		
28		0109	2.3E
Su	0505	0711	1.7F
	0949	1255	2.3E
	1700	1931	2.4F
	2231		
29		0140	2.3E
M	0550	0752	1.6F
	1029	1324	2.2E
	1740	2012	2.3F
	2312		
30		0212	2.2E
Tu	0634	0835	1.6F
	1108	1359	2.2E
	1820	2053	2.2F
	2352		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

ST. JOHNS RIVER ENTRANCE, FLORIDA, 1991

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0241	2.2E
W	0719	0916	1.4F
	1147	1434	2.2E
	1900	2139	2.1F
2	0032	0316	2.1E
Th	0805	1002	1.3F
	1228	1516	2.1E
	1944	2223	1.9F
3	0114	0355	2.0E
F	0853	1049	1.2F
	1311	1559	2.0E
	2031	2312	1.8F
4	0158	0438	2.0E
Sa	0943	1138	1.2F
	1400	1646	1.9E
	2126		
5		0001	1.6F
Su	0245	0526	1.9E
	1034	1229	1.2F
	1454	1741	1.8E
	2227		
6		0052	1.5F
M	0334	0617	1.8E
	1124	1323	1.2F
	1552	1836	1.8E
	2329		
7		0146	1.4F
Tu	0426	0710	1.9E
	1211	1416	1.3F
	1653	1934	1.8E
8	0029	0239	1.4F
W	0518	0805	1.9E
	1255	1509	1.6F
	1752	2035	1.9E
9	0124	0333	1.5F
Th	0609	0856	2.0E
	1336	1601	1.8F
	1849	2134	2.0E
10	0216	0424	1.6F
F	0658	0950	2.2E
	1416	1647	2.1F
	1942	2233	2.3E
11	0305	0514	1.7F
Sa	0746	1041	2.4E
	1455	1738	2.4F
	2034	2326	2.5E
12	0353	0602	1.8F
Su	0833	1128	2.6E
	1535	1827	2.7F
	2124		
13		0015	2.6E
M	0441	0652	1.8F
	0921	1215	2.8E
	1618	1915	2.8F
	2214		
14		0105	2.8E
Tu	0528	0740	1.9F
	1010	1306	2.8E
	1704	2004	2.9F
	2304		
15		0154	2.8E
W	0618	0829	1.9F
	1100	1356	2.9E
	1755	2053	2.9F
	2354		
16		0247	2.8E
Th	0709	0922	1.9F
	1153	1449	2.8E
	1851	2145	2.8F
17	0045	0338	2.7E
F	0802	1016	1.9F
	1249	1544	2.6E
	1952	2239	2.6F
18	0138	0430	2.6E
Sa	0858	1110	1.9F
	1349	1639	2.4E
	2058	2334	2.4F
19	0232	0527	2.5E
Su	0955	1209	1.9F
	1452	1745	2.2E
	2207		
20		0033	2.1F
M	0327	0629	2.3E
	1052	1308	1.9F
	1556	1854	2.1E
	2315		
21		0133	1.9F
Tu	0422	0732	2.2E
	1149	1407	1.9F
	1700	2014	2.0E
22	0020	0232	1.7F
W	0517	0836	2.1E
	1242	1505	2.0F
	1802	2132	2.0E
23	0121	0328	1.6F
Th	0611	0937	2.1E
	1334	1602	2.1F
	1900	2241	2.0E
24	0218	0424	1.5F
F	0702	1026	2.1E
	1422	1651	2.2F
	1953	2314	2.1E
25	0311	0517	1.5F
Sa	0750	1112	2.1E
	1509	1742	2.2F
	2041		
26		0015	2.1E
Su	0401	0602	1.5F
	0835	1147	2.1E
	1553	1824	2.3F
	2126		
27		0057	2.1E
M	0447	0647	1.4F
	0918	1221	2.1E
	1635	1905	2.2F
	2208		
28		0124	2.1E
Tu	0532	0728	1.4F
	0959	1256	2.1E
	1716	1946	2.2F
	2248		
29		0150	2.1E
W	0615	0809	1.4F
	1040	1331	2.1E
	1756	2029	2.2F
	2328		
30		0221	2.1E
Th	0658	0853	1.4F
	1121	1410	2.1E
	1836	2113	2.1F
31	0007	0254	2.1E
F	0741	0938	1.3F
	1203	1451	2.1E
	1917	2156	2.0F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0047	0331	2.1E
Sa	0824	1023	1.3F
	1248	1536	2.0E
	2001	2243	1.8F
2	0128	0412	2.1E
Su	0907	1109	1.3F
	1335	1621	2.0E
	2050	2331	1.7F
3	0210	0455	2.1E
M	0951	1200	1.4F
	1426	1713	1.9E
	2146		
4		0018	1.6F
Tu	0254	0544	2.1E
	1034	1249	1.4F
	1522	1804	1.9E
	2247		
5		0111	1.5F
W	0340	0631	2.1E
	1117	1341	1.6F
	1620	1901	1.9E
	2349		
6		0202	1.4F
Th	0429	0723	2.2E
	1201	1433	1.8F
	1719	2000	2.0E
7	0048	0256	1.4F
F	0520	0814	2.2E
	1245	1524	2.0F
	1818	2058	2.1E
8	0145	0350	1.4F
Sa	0612	0911	2.4E
	1330	1618	2.3F
	1915	2159	2.2E
9	0239	0442	1.5F
Su	0706	1006	2.5E
	1418	1709	2.5F
	2010	2258	2.4E
10	0330	0535	1.6F
M	0800	1059	2.6E
	1507	1802	2.8F
	2103	2356	2.6E
11	0420	0626	1.8F
Tu	0855	1155	2.8E
	1557	1853	2.9F
	2155		
12		0049	2.7E
W	0510	0719	1.9F
	0950	1248	2.8E
	1650	1944	3.0F
	2247		
13		0142	2.8E
Th	0600	0811	2.0F
	1045	1341	2.8E
	1745	2036	3.0F
	2337		
14		0233	2.8E
F	0650	0903	2.1F
	1141	1438	2.8E
	1842	2127	2.8F
15	0027	0324	2.8E
Sa	0741	0956	2.1F
	1238	1534	2.7E
	1941	2220	2.6F
16	0117	0417	2.7E
Su	0833	1050	2.1F
	1337	1631	2.5E
	2044	2313	2.4F
17	0208	0509	2.6E
M	0927	1147	2.1F
	1436	1732	2.3E
	2148		
18		0009	2.1F
Tu	0258	0600	2.4E
	1022	1242	2.1F
	1537	1838	2.1E
	2252		
19		0105	1.8F
W	0350	0656	2.2E
	1117	1339	2.0F
	1637	1949	1.9E
	2356		
20		0201	1.6F
Th	0442	0754	2.1E
	1211	1436	2.0F
	1737	2103	1.8E
21	0058	0259	1.4F
F	0534	0849	2.0E
	1304	1531	2.0F
	1833	2217	1.8E
22	0156	0353	1.3F
Sa	0625	0944	1.9E
	1355	1625	2.0F
	1927	2320	1.8E
23	0250	0448	1.2F
Su	0715	1033	1.9E
	1443	1712	2.1F
	2016		
24		0009	1.9E
M	0340	0535	1.2F
	0803	1116	1.9E
	1529	1759	2.1F
	2101		
25		0038	1.9E
Tu	0427	0621	1.2F
	0849	1156	1.9E
	1612	1841	2.1F
	2144		
26		0103	1.9E
W	0510	0704	1.3F
	0934	1231	2.0E
	1654	1925	2.1F
	2225		
27		0131	2.0E
Th	0552	0747	1.3F
	1017	1312	2.0E
	1735	2006	2.1F
	2304		
28		0200	2.1E
F	0632	0829	1.4F
	1059	1349	2.1E
	1814	2048	2.1F
	2342		
29		0231	2.1E
Sa	0711	0912	1.4F
	1142	1426	2.1E
	1854	2132	2.0F
30	0020	0306	2.2E
Su	0749	0955	1.5F
	1225	1510	2.1E
	1934	2215	1.9F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 M	0057	0345	2.2E
	0826	1040	1.5F
	1311	1557	2.1E
	2019	2301	1.8F
2 Tu	0135	0424	2.3E
	0902	1126	1.6F
	1359	1644	2.1E
	2109	2347	1.6F
3 W	0215	0510	2.3E
	0939	1217	1.7F
	1452	1735	2.1E
	2207		
4 Th		0038	1.5F
	0258	0557	2.3E
	1020	1306	1.8F
	1548	1832	2.0E
	2311		
5 F		0128	1.4F
	0345	0646	2.3E
	1107	1359	1.9F
	1648	1928	2.0E
6 Sa	0016	0223	1.3F
	0437	0741	2.4E
	1200	1453	2.1F
	1749	2029	2.1E
7 Su	0118	0318	1.3F
	0534	0838	2.4E
	1256	1549	2.3F
	1849	2132	2.2E
8 M	0215	0415	1.4F
	0635	0936	2.5E
	1353	1645	2.5F
	1948	2235	2.3E
9 Tu	0309	0511	1.6F
	0736	1037	2.6E
	1450	1739	2.7F
	2044	2339	2.5E
10 W	0400	0607	1.8F
	0837	1138	2.7E
	1546	1831	2.9F
	2137		
11 Th		0034	2.7E
	0449	0700	2.0F
	0936	1235	2.8E
	1641	1925	2.9F
	2228		
12 F		0129	2.8E
	0537	0753	2.2F
	1033	1331	2.8E
	1736	2016	2.9F
	2317		
13 Sa		0219	2.9E
	0626	0844	2.3F
	1128	1428	2.8E
	1831	2107	2.8F
14 Su	0005	0306	2.8E
	0714	0935	2.4F
	1224	1523	2.7E
	1927	2159	2.6F
15 M	0052	0354	2.8E
	0804	1028	2.3F
	1318	1614	2.5E
	2025	2249	2.3F
16 Tu	0139	0440	2.6E
	0855	1119	2.3F
	1414	1710	2.3E
	2125	2340	2.0F
17 W	0226	0526	2.4E
	0948	1213	2.1F
	1509	1809	2.0E
	2227		
18 Th		0033	1.7F
	0314	0617	2.2E
	1043	1306	2.0F
	1607	1908	1.8E
	2329		
19 F		0129	1.4F
	0403	0705	2.0E
	1139	1400	1.9F
	1704	2020	1.7E
20 Sa	0031	0223	1.2F
	0455	0801	1.9E
	1234	1459	1.8F
	1801	2138	1.6E
21 Su	0131	0322	1.1F
	0549	0858	1.8E
	1328	1552	1.8F
	1856	2301	1.6E
22 M	0226	0416	1.1F
	0643	0956	1.7E
	1418	1645	1.9F
	1947	2348	1.7E
23 Tu	0315	0509	1.1F
	0735	1048	1.8E
	1506	1732	1.9F
	2034		
24 W		0024	1.8E
	0401	0556	1.2F
	0825	1133	1.8E
	1551	1818	2.0F
	2118		
25 Th		0044	1.9E
	0443	0641	1.3F
	0911	1212	1.9E
	1633	1859	2.1F
	2159		
26 F		0108	2.0E
	0523	0722	1.5F
	0956	1250	2.1E
	1714	1941	2.1F
	2237		
27 Sa		0133	2.1E
	0600	0803	1.6F
	1038	1329	2.2E
	1753	2022	2.1F
	2314		
28 Su		0203	2.2E
	0635	0844	1.7F
	1120	1408	2.3E
	1832	2105	2.0F
	2350		
29 M		0236	2.3E
	0708	0927	1.8F
	1202	1449	2.3E
	1911	2148	1.9F
30 Tu	0026	0313	2.4E
	0739	1010	1.8F
	1246	1532	2.3E
	1952	2231	1.8F
31 W	0101	0354	2.5E
	0810	1055	1.9F
	1333	1621	2.3E
	2039	2317	1.6F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Th	0139	0439	2.5E
	0845	1144	1.9F
	1424	1707	2.2E
	2136		
2 F		0006	1.4F
	0221	0524	2.5E
	0930	1235	2.0F
	1520	1800	2.1E
	2242		
3 Sa		0059	1.3F
	0309	0615	2.4E
	1025	1331	2.0F
	1621	1901	2.1E
	2350		
4 Su		0154	1.2F
	0405	0711	2.4E
	1129	1427	2.1F
	1724	2004	2.0E
5 M	0055	0255	1.3F
	0509	0812	2.4E
	1236	1527	2.3F
	1827	2112	2.1E
6 Tu	0154	0353	1.4F
	0616	0917	2.4E
	1341	1624	2.4F
	1927	2221	2.2E
7 W	0248	0451	1.6F
	0723	1024	2.5E
	1441	1720	2.6F
	2024	2327	2.4E
8 Th	0338	0546	1.9F
	0825	1130	2.6E
	1537	1815	2.7F
	2117		
9 F		0021	2.6E
	0426	0641	2.2F
	0924	1227	2.8E
	1632	1908	2.8F
	2207		
10 Sa		0112	2.8E
	0512	0733	2.4F
	1020	1326	2.8E
	1725	1956	2.7F
	2254		
11 Su		0158	2.8E
	0558	0822	2.5F
	1113	1416	2.8E
	1817	2045	2.6F
	2339		
12 M		0239	2.8E
	0645	0911	2.5F
	1204	1505	2.7E
	1910	2134	2.4F
13 Tu	0023	0322	2.7E
	0732	0959	2.5F
	1255	1551	2.5E
	2004	2222	2.1F
14 W	0107	0407	2.6E
	0821	1049	2.3F
	1345	1639	2.3E
	2100	2312	1.8F
15 Th	0151	0446	2.3E
	0912	1139	2.1F
	1437	1728	2.0E
	2159		
16 F		0000	1.5F
	0236	0530	2.1E
	1007	1230	1.9F
	1531	1821	1.8E
	2300		
17 Sa		0055	1.2F
	0325	0619	1.9E
	1105	1326	1.8F
	1626	1922	1.6E
18 Su	0003	0149	1.1F
	0418	0710	1.7E
	1204	1422	1.7F
	1723	2039	1.5E
19 M	0102	0248	1.0F
	0515	0811	1.6E
	1300	1521	1.6F
	1820	2200	1.5E
20 Tu	0156	0347	1.0F
	0613	0917	1.6E
	1353	1613	1.7F
	1913	2258	1.6E
21 W	0245	0440	1.1F
	0709	1019	1.7E
	1442	1704	1.8F
	2002	2333	1.7E
22 Th	0330	0527	1.3F
	0801	1111	1.8E
	1528	1751	1.9F
	2047		
23 F		0004	1.9E
	0410	0611	1.5F
	0849	1152	2.0E
	1611	1833	2.0F
	2128		
24 Sa		0032	2.0E
	0447	0654	1.7F
	0933	1231	2.2E
	1651	1915	2.1F
	2206		
25 Su		0059	2.2E
	0522	0735	1.8F
	1016	1308	2.3E
	1731	1956	2.1F
	2243		
26 M		0132	2.3E
	0554	0815	2.0F
	1057	1347	2.4E
	1810	2036	2.0F
	2318		
27 Tu		0205	2.5E
	0623	0857	2.1F
	1139	1427	2.5E
	1849	2120	1.9F
	2353		
28 W		0242	2.5E
	0652	0942	2.1F
	1223	1510	2.5E
	1931	2203	1.8F
29 Th	0029	0323	2.6E
	0724	1026	2.2F
	1310	1555	2.5E
	2019	2250	1.6F
30 F	0108	0408	2.6E
	0804	1115	2.1F
	1401	1644	2.3E
	2116	2340	1.4F
31 Sa	0153	0456	2.5E
	0855	1209	2.1F
	1457	1739	2.2E
	2222		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

ST. JOHNS RIVER ENTRANCE, FLORIDA, 1991

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0034	1.3F
Su	0245	0549	2.4E
	1000	1304	2.1F
	1558	1837	2.1E
	2331		
2		0132	1.3F
M	0347	0648	2.3E
	1115	1405	2.1F
	1702	1944	2.0E
3	0034	0233	1.3F
Tu	0457	0753	2.2E
	1227	1505	2.2F
	1806	2055	2.1E
4	0132	0334	1.5F
W	0607	0907	2.3E
	1333	1605	2.3F
	1906	2209	2.2E
5	0225	0434	1.8F
Th	0714	1018	2.4E
	1433	1704	2.4F
	2002	2311	2.4E
6	0314	0530	2.1F
F	0816	1127	2.6E
	1529	1759	2.5F
	2054		
7		0005	2.6E
Sa	0400	0624	2.3F
	0912	1224	2.7E
	1621	1848	2.5F
	2142		
8		0050	2.7E
Su	0445	0713	2.5F
	1005	1314	2.8E
	1712	1937	2.5F
	2227		
9		0132	2.7E
M	0529	0759	2.6F
	1054	1400	2.7E
	1801	2022	2.3F
	2310		
10		0210	2.7E
Tu	0614	0845	2.6F
	1142	1443	2.6E
	1851	2108	2.1F
	2352		
11		0250	2.6E
W	0659	0931	2.5F
	1228	1525	2.4E
	1941	2154	1.9F
12	0033	0327	2.4E
Th	0746	1017	2.3F
	1315	1604	2.2E
	2034	2240	1.6F
13	0115	0408	2.3E
F	0836	1105	2.1F
	1402	1647	2.0E
	2131	2328	1.4F
14	0159	0449	2.0E
Sa	0930	1156	1.8F
	1453	1735	1.8E
	2230		
15		0022	1.1F
Su	0248	0534	1.8E
	1030	1248	1.6F
	1546	1828	1.6E
	2331		
16		0117	1.0F
M	0343	0631	1.7E
	1131	1346	1.5F
	1642	1933	1.5E
17	0029	0214	1.0F
Tu	0443	0733	1.6E
	1230	1443	1.5F
	1739	2048	1.5E
18	0122	0312	1.1F
W	0544	0840	1.6E
	1325	1540	1.6F
	1833	2150	1.6E
19	0209	0406	1.2F
Th	0642	0947	1.7E
	1415	1631	1.7F
	1924	2240	1.7E
20	0252	0457	1.4F
F	0735	1042	1.9E
	1502	1718	1.8F
	2009	2314	1.9E
21	0331	0540	1.7F
Sa	0823	1126	2.1E
	1546	1802	1.9F
	2051	2349	2.1E
22	0406	0623	1.9F
Su	0908	1205	2.3E
	1627	1844	2.0F
	2130		
23		0022	2.3E
M	0439	0704	2.1F
	0952	1244	2.4E
	1708	1927	2.0F
	2207		
24		0057	2.5E
Tu	0510	0747	2.3F
	1034	1325	2.6E
	1748	2008	1.9F
	2244		
25		0134	2.6E
W	0540	0829	2.4F
	1118	1404	2.6E
	1830	2051	1.9F
	2321		
26		0213	2.7E
Th	0612	0914	2.4F
	1202	1449	2.6E
	1914	2138	1.7F
27	0000	0257	2.7E
F	0650	1000	2.4F
	1250	1536	2.6E
	2004	2227	1.6F
28	0044	0344	2.6E
Sa	0738	1051	2.3F
	1342	1623	2.4E
	2103	2319	1.5F
29	0134	0433	2.5E
Su	0837	1145	2.2F
	1437	1721	2.3E
	2206		
30		0014	1.4F
M	0233	0530	2.4E
	0949	1243	2.1F
	1537	1820	2.1E
	2311		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0114	1.4F
Tu	0340	0634	2.2E
	1107	1344	2.0F
	1640	1927	2.1E
2	0012	0216	1.5F
W	0451	0747	2.1E
	1219	1447	2.0F
	1743	2043	2.1E
3	0108	0317	1.7F
Th	0601	0904	2.2E
	1324	1546	2.1F
	1842	2153	2.2E
4	0200	0416	2.0F
F	0706	1019	2.3E
	1423	1645	2.1F
	1937	2254	2.4E
5	0248	0513	2.3F
Sa	0804	1122	2.5E
	1518	1739	2.2F
	2027	2343	2.5E
6	0334	0602	2.5F
Su	0858	1215	2.6E
	1609	1828	2.2F
	2114		
7		0027	2.6E
M	0418	0650	2.6F
	0948	1302	2.6E
	1658	1913	2.1F
	2157		
8		0103	2.6E
Tu	0502	0735	2.6F
	1034	1341	2.6E
	1745	1958	2.0F
	2239		
9		0141	2.5E
W	0545	0818	2.6F
	1118	1420	2.5E
	1833	2041	1.9F
	2320		
10		0215	2.4E
Th	0628	0902	2.4F
	1201	1455	2.3E
	1921	2125	1.7F
11	0000	0252	2.3E
F	0712	0948	2.2F
	1245	1534	2.2E
	2010	2211	1.5F
12	0041	0331	2.2E
Sa	0800	1034	2.0F
	1329	1611	2.0E
	2103	2259	1.3F
13	0125	0414	2.0E
Su	0853	1122	1.8F
	1415	1656	1.8E
	2159	2350	1.1F
14	0215	0503	1.8E
M	0952	1215	1.6F
	1505	1745	1.7E
	2256		
15		0044	1.1F
Tu	0310	0553	1.7E
	1054	1310	1.5F
	1559	1840	1.6E
	2351		
16		0140	1.1F
W	0411	0654	1.6E
	1155	1406	1.4F
	1654	1940	1.6E
17	0041	0236	1.2F
Th	0512	0757	1.6E
	1252	1501	1.4F
	1748	2039	1.7E
18	0127	0329	1.4F
F	0611	0902	1.7E
	1344	1553	1.5F
	1839	2134	1.8E
19	0209	0419	1.6F
Sa	0705	1000	1.9E
	1433	1642	1.6F
	1926	2219	2.0E
20	0247	0507	1.9F
Su	0755	1051	2.1E
	1518	1729	1.7F
	2009	2302	2.2E
21	0322	0549	2.1F
M	0842	1136	2.3E
	1602	1812	1.8F
	2051	2342	2.4E
22	0356	0634	2.4F
Tu	0927	1221	2.5E
	1645	1857	1.8F
	2131		
23		0023	2.6E
W	0429	0718	2.5F
	1012	1302	2.6E
	1728	1941	1.9F
	2212		
24		0106	2.7E
Th	0504	0803	2.7F
	1058	1345	2.7E
	1812	2027	1.8F
	2254		
25		0149	2.8E
F	0544	0850	2.7F
	1145	1431	2.7E
	1859	2116	1.8F
	2339		
26		0238	2.8E
Sa	0630	0939	2.6F
	1233	1520	2.7E
	1951	2207	1.7F
27	0029	0325	2.7E
Su	0724	1030	2.5F
	1325	1611	2.5E
	2047	2300	1.6F
28	0124	0418	2.5E
M	0829	1124	2.3F
	1419	1708	2.4E
	2147	2357	1.6F
29	0227	0518	2.3E
Tu	0942	1223	2.2F
	1517	1806	2.3E
	2247		
30		0056	1.6F
W	0334	0625	2.1E
	1057	1325	2.0F
	1617	1913	2.2E
	2346		
31		0157	1.7F
Th	0443	0742	2.1E
	1206	1425	1.9F
	1716	2024	2.2E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 275° True E-Ebb, Dir. 100° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0041	0258	1.9F
	0550	0903	2.1E
	1311	1524	1.9F
	1814	2131	2.2E
2 Sa	0133	0357	2.1F
	0653	1016	2.2E
	1410	1625	1.9F
	1908	2226	2.3E
3 Su	0222	0451	2.3F
	0750	1120	2.3E
	1504	1716	1.9F
	1958	2315	2.3E
4 M	0309	0542	2.5F
	0841	1209	2.4E
	1555	1805	1.8F
	2044	2359	2.4E
5 Tu	0354	0628	2.5F
	0929	1250	2.4E
	1643	1851	1.8F
	2128		
6 W		0034	2.4E
	0437	0711	2.5F
	1013	1328	2.4E
	1730	1934	1.7F
	2210		
7 Th		0111	2.3E
	0520	0753	2.5F
	1056	1401	2.3E
	1815	2015	1.6F
	2250		
8 F		0146	2.3E
	0602	0836	2.3F
	1136	1432	2.2E
	1901	2101	1.5F
	2331		
9 Sa		0223	2.2E
	0644	0919	2.2F
	1217	1505	2.1E
	1947	2145	1.4F
10 Su	0013	0300	2.1E
	0729	1005	2.0F
	1258	1542	2.0E
	2035	2230	1.3F
11 M	0057	0342	2.0E
	0818	1053	1.8F
	1342	1623	2.0E
	2125	2321	1.2F
12 Tu	0146	0431	1.9E
	0913	1142	1.6F
	1427	1708	1.9E
	2216		
13 W		0013	1.2F
	0239	0522	1.8E
	1012	1235	1.5F
	1515	1800	1.8E
	2306		
14 Th		0104	1.2F
	0337	0617	1.7E
	1114	1327	1.4F
	1606	1851	1.8E
	2354		
15 F		0158	1.3F
	0436	0714	1.7E
	1213	1419	1.4F
	1657	1944	1.9E
16 Sa	0039	0250	1.5F
	0535	0818	1.8E
	1309	1513	1.4F
	1748	2037	2.0E
17 Su	0121	0341	1.7F
	0631	0917	1.9E
	1401	1604	1.4F
	1837	2127	2.1E
18 M	0201	0429	2.0F
	0724	1012	2.1E
	1450	1654	1.5F
	1924	2218	2.3E
19 Tu	0239	0517	2.3F
	0814	1104	2.3E
	1537	1743	1.6F
	2011	2303	2.5E
20 W	0317	0604	2.5F
	0903	1155	2.5E
	1623	1829	1.7F
	2057	2352	2.6E
21 Th	0357	0652	2.7F
	0952	1241	2.6E
	1708	1918	1.8F
	2144		
22 F		0041	2.8E
	0440	0741	2.8F
	1040	1329	2.7E
	1755	2006	1.8F
	2233		
23 Sa		0130	2.8E
	0527	0828	2.9F
	1128	1418	2.8E
	1842	2055	1.9F
	2324		
24 Su		0220	2.8E
	0619	0919	2.8F
	1217	1507	2.8E
	1933	2148	1.9F
25 M	0019	0313	2.7E
	0717	1010	2.6F
	1308	1559	2.7E
	2026	2242	1.9F
26 Tu	0117	0408	2.5E
	0822	1105	2.4F
	1400	1652	2.6E
	2122	2337	1.9F
27 W	0219	0509	2.4E
	0930	1201	2.2F
	1454	1751	2.4E
	2219		
28 Th		0036	1.9F
	0323	0617	2.2E
	1040	1301	2.0F
	1550	1852	2.3E
	2316		
29 F		0136	2.0F
	0429	0730	2.0E
	1148	1402	1.8F
	1646	1955	2.2E
30 Sa	0012	0236	2.1F
	0533	0852	2.0E
	1253	1500	1.6F
	1741	2059	2.2E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0105	0334	2.2F
	0634	1006	2.0E
	1353	1600	1.6F
	1835	2200	2.1E
2 M	0156	0428	2.3F
	0730	1109	2.1E
	1448	1654	1.5F
	1926	2248	2.1E
3 Tu	0245	0519	2.3F
	0822	1202	2.1E
	1540	1743	1.5F
	2015	2332	2.1E
4 W	0332	0604	2.4F
	0909	1241	2.2E
	1628	1828	1.5F
	2100		
5 Th		0013	2.1E
	0416	0650	2.4F
	0953	1319	2.1E
	1713	1913	1.5F
	2143		
6 F		0047	2.1E
	0459	0731	2.3F
	1034	1344	2.1E
	1757	1954	1.4F
	2226		
7 Sa		0120	2.1E
	0541	0812	2.2F
	1113	1413	2.1E
	1840	2037	1.4F
	2307		
8 Su		0157	2.1E
	0622	0855	2.1F
	1152	1441	2.1E
	1922	2120	1.4F
	2349		
9 M		0238	2.1E
	0703	0939	2.0F
	1231	1516	2.1E
	2004	2204	1.4F
10 Tu	0033	0319	2.0E
	0747	1024	1.9F
	1310	1555	2.1E
	2047	2250	1.4F
11 W	0119	0404	2.0E
	0835	1110	1.7F
	1351	1638	2.1E
	2131	2338	1.4F
12 Th	0208	0453	1.9E
	0929	1159	1.6F
	1433	1721	2.1E
	2215		
13 F		0029	1.4F
	0302	0541	1.9E
	1028	1243	1.4F
	1518	1806	2.1E
	2259		
14 Sa		0120	1.5F
	0358	0638	1.8E
	1130	1343	1.3F
	1605	1901	2.1E
	2344		
15 Su		0211	1.6F
	0457	0735	1.8E
	1231	1434	1.3F
	1655	1949	2.1E
16 M	0029	0304	1.8F
	0555	0834	1.9E
	1329	1527	1.3F
	1747	2044	2.2E
17 Tu	0114	0357	2.1F
	0652	0934	2.0E
	1422	1621	1.3F
	1841	2139	2.3E
18 W	0159	0448	2.3F
	0748	1035	2.2E
	1513	1714	1.5F
	1935	2234	2.5E
19 Th	0247	0539	2.6F
	0841	1130	2.4E
	1601	1805	1.6F
	2030	2327	2.6E
20 F	0335	0631	2.8F
	0932	1227	2.6E
	1648	1856	1.8F
	2124		
21 Sa		0021	2.8E
	0425	0719	2.9F
	1022	1315	2.8E
	1735	1947	2.0F
	2218		
22 Su		0116	2.9E
	0518	0810	3.0F
	1111	1406	2.9E
	1822	2037	2.1F
	2313		
23 M		0209	2.9E
	0612	0900	2.9F
	1200	1455	2.9E
	1910	2129	2.2F
24 Tu	0009	0304	2.8E
	0709	0951	2.7F
	1249	1544	2.8E
	2001	2222	2.2F
25 W	0106	0400	2.6E
	0810	1045	2.5F
	1338	1633	2.7E
	2053	2316	2.2F
26 Th	0205	0459	2.4E
	0914	1139	2.2F
	1428	1724	2.5E
	2148		
27 F		0011	2.2F
	0305	0600	2.2E
	1019	1234	1.9F
	1519	1820	2.4E
	2244		
28 Sa		0108	2.1F
	0407	0707	2.0E
	1126	1333	1.6F
	1612	1917	2.2E
	2341		
29 Su		0207	2.1F
	0509	0826	1.9E
	1231	1432	1.4F
	1706	2020	2.0E
30 M	0037	0308	2.1F
	0609	0947	1.8E
	1332	1530	1.3F
	1801	2121	1.9E
31 Tu	0132	0403	2.1F
	0706	1109	1.9E
	1429	1626	1.2F
	1855	2218	1.9E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0052	2.2E
Tu	0339	0655	2.5F
	0952	1333	2.1E
	1610	1912	2.1F
	2200		
2		0141	2.2E
W	0430	0741	2.4F
	1041	1420	2.1E
	1700	2005	2.1F
	2255		
3		0233	2.1E
Th	0519	0836	2.3F
	1129	1509	2.1E
	1749	2107	2.1F
	2347		
4		0327	2.0E
F	0608	0931	2.1F
	1212	1557	2.0E
	1839	2201	2.0F
5	0038	0418	1.8E
Sa	0659	1018	2.0F
	1258	1642	1.8E
	1929	2249	1.9F
6	0129	0511	1.6E
Su	0750	1059	1.7F
	1343	1734	1.6E
	2021	2336	1.8F
7	0222	0623	1.3E
M	0845	1139	1.5F
	1431	1847	1.5E
	2112		
8		0037	1.6F
Tu	0319	0733	1.2E
	0938	1250	1.3F
	1520	1951	1.4E
	2204		
9		0141	1.5F
W	0416	0829	1.2E
	1030	1401	1.1F
	1612	2043	1.4E
	2258		
10		0239	1.5F
Th	0517	0921	1.2E
	1128	1458	1.1F
	1709	2132	1.3E
	2351		
11		0333	1.5F
F	0615	1015	1.2E
	1224	1553	1.1F
	1804	2227	1.3E
12	0045	0427	1.5F
Sa	0707	1111	1.2E
	1318	1647	1.2F
	1855	2322	1.4E
13	0134	0516	1.6F
Su	0750	1200	1.3E
	1406	1734	1.3F
	1941		
14		0008	1.4E
M	0220	0558	1.7F
	0831	1241	1.4E
	1450	1812	1.3F
	2027		
15		0045	1.5E
Tu	0303	0632	1.8F
	0911	1316	1.4E
	1532	1837	1.4F
	2110		
16		0110	1.5E
W	0346	0648	1.8F
	0951	1342	1.4E
	1613	1840	1.5F
	2156		
17		0112	1.5E
Th	0427	0656	1.8F
	1030	1341	1.5E
	1652	1909	1.6F
	2239		
18		0123	1.6E
F	0506	0728	1.8F
	1107	1346	1.6E
	1731	1948	1.7F
	2322		
19		0153	1.6E
Sa	0546	0809	1.8F
	1144	1416	1.7E
	1810	2035	1.8F
20	0007	0233	1.6E
Su	0628	0856	1.8F
	1222	1454	1.7E
	1853	2125	1.9F
21	0053	0317	1.6E
M	0715	0944	1.8F
	1304	1537	1.6E
	1942	2213	1.9F
22	0145	0404	1.5E
Tu	0808	1031	1.7F
	1351	1623	1.7E
	2037	2301	1.9F
23	0241	0455	1.3E
W	0906	1119	1.6F
	1445	1715	1.7E
	2132	2356	1.8F
24	0342	0601	1.2E
Th	1004	1215	1.5F
	1543	1825	1.6E
	2231		
25		0103	1.8F
F	0449	0818	1.2E
	1108	1323	1.4F
	1649	2006	1.6E
	2336		
26		0243	1.8F
Sa	0556	0934	1.3E
	1211	1449	1.4F
	1756	2128	1.7E
27	0039	0409	2.0F
Su	0658	1049	1.5E
	1313	1631	1.6F
	1859	2259	1.8E
28	0138	0511	2.2F
M	0751	1149	1.8E
	1410	1732	1.9F
	1958		
29		0001	2.0E
Tu	0231	0601	2.3F
	0843	1236	2.0E
	1502	1821	2.1F
	2052		
30		0050	2.2E
W	0323	0645	2.4F
	0932	1320	2.1E
	1551	1906	2.2F
	2148		
31		0135	2.2E
Th	0412	0728	2.4F
	1019	1403	2.2E
	1639	1951	2.2F
	2239		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0221	2.1E
F	0459	0814	2.2F
	1102	1445	2.1E
	1724	2042	2.2F
	2327		
2		0307	2.0E
Sa	0544	0902	2.1F
	1143	1526	2.0E
	1809	2132	2.1F
3	0011	0351	1.8E
Su	0630	0945	1.9F
	1224	1602	1.8E
	1855	2214	1.9F
4	0058	0431	1.5E
M	0718	1015	1.7F
	1307	1629	1.6E
	1943	2247	1.8F
5	0146	0511	1.3E
Tu	0808	1035	1.5F
	1350	1649	1.4E
	2033	2311	1.6F
6	0236	0645	1.1E
W	0859	1109	1.3F
	1439	1719	1.2E
	2125	2348	1.4F
7	0330	0757	1.0E
Th	0951	1152	1.1F
	1530	2009	1.2E
	2219		
8		0158	1.3F
F	0429	0851	1.0E
	1048	1416	0.9F
	1627	2102	1.2E
	2314		
9		0259	1.3F
Sa	0531	0944	1.0E
	1148	1519	1.0F
	1728	2157	1.2E
10	0012	0356	1.3F
Su	0631	1041	1.1E
	1246	1618	1.1F
	1827	2255	1.3E
11	0107	0449	1.5F
M	0720	1133	1.2E
	1338	1709	1.2F
	1919	2345	1.4E
12	0156	0535	1.6F
Tu	0802	1216	1.4E
	1423	1751	1.4F
	2006		
13		0025	1.5E
W	0240	0611	1.7F
	0842	1250	1.5E
	1507	1822	1.5F
	2050		
14		0055	1.5E
Th	0322	0634	1.8F
	0921	1314	1.5E
	1547	1833	1.7F
	2136		
15		0110	1.6E
F	0404	0639	1.8F
	1000	1317	1.6E
	1626	1852	1.9F
	2219		
16		0117	1.7E
Sa	0444	0707	1.9F
	1038	1325	1.8E
	1703	1928	2.0F
	2303		
17		0141	1.7E
Su	0524	0745	1.9F
	1117	1353	1.9E
	1742	2011	2.1F
	2347		
18		0217	1.7E
M	0606	0830	1.9F
	1156	1431	1.9E
	1827	2101	2.1F
19	0032	0300	1.7E
Tu	0651	0919	1.8F
	1239	1515	1.9E
	1915	2151	2.1F
20	0122	0347	1.6E
W	0744	1008	1.8F
	1327	1602	1.8E
	2010	2241	2.0F
21	0219	0435	1.4E
Th	0842	1058	1.6F
	1421	1654	1.7E
	2110	2333	1.8F
22	0320	0540	1.2E
F	0943	1153	1.5F
	1524	1803	1.5E
	2211		
23		0042	1.7F
Sa	0426	0825	1.2E
	1048	1306	1.3F
	1631	2031	1.5E
	2318		
24		0247	1.7F
Su	0535	0929	1.4E
	1153	1514	1.4F
	1742	2144	1.6E
25	0021	0356	1.8F
M	0639	1035	1.6E
	1257	1623	1.7F
	1850	2254	1.8E
26	0121	0456	2.0F
Tu	0733	1131	1.8E
	1351	1720	1.9F
	1948	2352	2.0E
27	0217	0546	2.2F
W	0821	1219	2.0E
	1442	1808	2.2F
	2041		
28		0039	2.1E
Th	0307	0629	2.3F
	0908	1301	2.2E
	1530	1850	2.3F
	2131		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0122	2.2E
F	0352	0709	2.2F
	0951	1340	2.2E
	1614	1930	2.3F
	2219		
2		0204	2.1E
Sa	0438	0747	2.1F
	1032	1417	2.1E
	1657	2011	2.2F
	2302		
3		0243	1.9E
Su	0519	0824	1.9F
	1112	1450	1.9E
	1738	2053	2.1F
	2344		
4		0320	1.7E
M	0600	0852	1.8F
	1151	1513	1.8E
	1820	2128	1.9F
5	0026	0347	1.5E
Tu	0644	0918	1.6F
	1230	1529	1.6E
	1905	2151	1.8F
6	0109	0359	1.3E
W	0730	0953	1.5F
	1312	1551	1.4E
	1953	2223	1.6F
7	0156	0419	1.1E
Th	0821	1032	1.3F
	1359	1624	1.3E
	2047	2302	1.4F
8	0248	0454	0.9E
F	0916	1115	1.1F
	1451	1706	1.1E
	2140	2349	1.2F
9	0344	0820	0.9E
Sa	1011	1206	1.0F
	1549	2032	1.0E
	2238		
10		0219	1.1F
Su	0446	0912	0.9E
	1110	1442	0.9F
	1652	2124	1.1E
	2338		
11		0320	1.2F
M	0549	1004	1.0E
	1210	1543	1.0F
	1757	2220	1.2E
12	0034	0414	1.3F
Tu	0641	1057	1.2E
	1303	1637	1.2F
	1852	2314	1.3E
13	0127	0503	1.5F
W	0727	1141	1.3E
	1350	1723	1.5F
	1941	2358	1.4E
14	0212	0541	1.6F
Th	0808	1216	1.5E
	1433	1755	1.7F
	2028		
15		0031	1.6E
F	0257	0606	1.7F
	0847	1236	1.6E
	1515	1813	1.9F
	2112		
16		0051	1.7E
Sa	0339	0617	1.8F
	0927	1244	1.8E
	1556	1833	2.1F
	2158		
17		0105	1.8E
Su	0420	0644	1.9F
	1008	1302	1.9E
	1637	1907	2.2F
	2242		
18		0130	1.8E
M	0502	0722	2.0F
	1049	1333	2.0E
	1718	1949	2.3F
	2328		
19		0203	1.8E
Tu	0546	0807	1.9F
	1132	1412	2.0E
	1802	2039	2.2F
20	0014	0248	1.7E
W	0632	0858	1.9F
	1218	1458	2.0E
	1853	2132	2.1F
21	0104	0336	1.6E
Th	0727	0951	1.8F
	1309	1548	1.8E
	1950	2225	2.0F
22	0200	0428	1.4E
F	0827	1043	1.6F
	1408	1643	1.6E
	2052	2319	1.8F
23	0300	0546	1.2E
Sa	0929	1140	1.5F
	1511	1903	1.4E
	2157		
24		0042	1.6F
Su	0406	0817	1.3E
	1030	1351	1.4F
	1621	2037	1.5E
	2300		
25		0235	1.7F
M	0512	0915	1.5E
	1135	1506	1.6F
	1734	2138	1.6E
26	0004	0337	1.8F
Tu	0616	1012	1.7E
	1237	1606	1.8F
	1840	2239	1.8E
27	0104	0435	1.9F
W	0710	1108	1.9E
	1330	1701	2.0F
	1938	2335	1.9E
28	0158	0525	2.0F
Th	0757	1157	2.0E
	1419	1749	2.2F
	2027		
29		0023	2.0E
F	0246	0609	2.1F
	0839	1239	2.1E
	1504	1830	2.3F
	2111		
30		0104	2.0E
Sa	0330	0647	2.0F
	0920	1316	2.0E
	1547	1907	2.2F
	2156		
31		0143	1.9E
Su	0412	0720	1.9F
	1000	1348	1.9E
	1628	1940	2.1F
	2237		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0219	1.8E
M	0452	0741	1.8F
	1040	1412	1.8E
	1708	2001	2.0F
	2317		
2		0249	1.6E
Tu	0532	0756	1.6F
	1119	1421	1.7E
	1748	2024	1.9F
	2356		
3		0302	1.4E
W	0614	0832	1.5F
	1158	1438	1.5E
	1830	2103	1.7F
4	0037	0312	1.3E
Th	0659	0916	1.4F
	1239	1510	1.4E
	1918	2146	1.6F
5	0120	0342	1.1E
F	0749	1001	1.3F
	1325	1548	1.3E
	2009	2229	1.5F
6	0210	0419	1.0E
Sa	0842	1046	1.2F
	1418	1632	1.1E
	2106	2314	1.3F
7	0304	0505	0.9E
Su	0939	1135	1.1F
	1517	1725	1.0E
	2201		
8		0008	1.2F
M	0401	0835	0.9E
	1034	1235	1.0F
	1619	2049	1.0E
	2259		
9		0120	1.1F
Tu	0500	0918	1.0E
	1130	1457	1.1F
	1723	2137	1.1E
	2358		
10		0324	1.2F
W	0555	1002	1.2E
	1225	1552	1.3F
	1823	2230	1.2E
11	0051	0415	1.4F
Th	0643	1046	1.3E
	1312	1641	1.6F
	1915	2319	1.4E
12	0141	0457	1.5F
F	0728	1121	1.5E
	1359	1718	1.8F
	2001	2358	1.5E
13	0228	0524	1.7F
Sa	0810	1145	1.7E
	1441	1744	2.1F
	2048		
14		0026	1.7E
Su	0311	0549	1.8F
	0852	1209	1.9E
	1526	1813	2.3F
	2134		
15		0050	1.8E
M	0357	0622	1.9F
	0938	1240	2.0E
	1610	1848	2.4F
	2221		
16		0119	1.9E
Tu	0441	0702	2.0F
	1024	1316	2.1E
	1657	1931	2.4F
	2310		
17		0157	1.8E
W	0528	0747	1.9F
	1112	1359	2.1E
	1744	2022	2.3F
	2358		
18		0244	1.8E
Th	0617	0841	1.9F
	1202	1449	2.0E
	1837	2120	2.2F
19	0049	0339	1.6E
F	0711	0941	1.8F
	1258	1547	1.8E
	1935	2218	2.0F
20	0143	0440	1.5E
Sa	0811	1038	1.6F
	1358	1652	1.6E
	2038	2316	1.8F
21	0241	0643	1.4E
Su	0913	1149	1.5F
	1502	1917	1.4E
	2139		
22		0101	1.6F
M	0342	0759	1.5E
	1013	1344	1.6F
	1611	2026	1.5E
	2240		
23		0215	1.6F
Tu	0445	0854	1.7E
	1113	1447	1.7F
	1722	2122	1.6E
	2342		
24		0313	1.7F
W	0546	0946	1.8E
	1211	1544	1.8F
	1828	2218	1.7E
25	0041	0408	1.7F
Th	0640	1040	1.8E
	1305	1638	2.0F
	1920	2313	1.8E
26	0133	0500	1.8F
F	0726	1131	1.9E
	1352	1726	2.1F
	2007		
27		0002	1.8E
Sa	0221	0545	1.8F
	0808	1215	1.9E
	1437	1808	2.1F
	2049		
28		0045	1.8E
Su	0306	0624	1.8F
	0849	1252	1.9E
	1519	1845	2.1F
	2130		
29		0123	1.8E
M	0348	0656	1.7F
	0929	1324	1.8E
	1559	1914	2.0F
	2210		
30		0158	1.6E
Tu	0429	0709	1.6F
	1009	1342	1.6E
	1639	1924	1.9F
	2249		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

MIAMI HARBOR ENTRANCE, FLORIDA, 1991

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0227	1.5E
W	0508	0722	1.5F
	1049	1343	1.6E
	1719	1947	1.8F
	2329		
2		0229	1.4E
Th	0549	0758	1.4F
	1129	1403	1.5E
	1800	2027	1.7F
3	0009	0240	1.3E
F	0631	0844	1.4F
	1211	1438	1.4E
	1845	2114	1.6F
4	0051	0313	1.2E
Sa	0719	0933	1.3F
	1258	1520	1.3E
	1936	2201	1.5F
5	0138	0353	1.1E
Su	0811	1021	1.3F
	1349	1606	1.2E
	2030	2246	1.4F
6	0227	0437	1.1E
M	0906	1109	1.2F
	1447	1655	1.1E
	2126	2334	1.3F
7	0319	0530	1.0E
Tu	0958	1202	1.2F
	1547	1801	1.0E
	2220		
8		0029	1.3F
W	0411	0806	1.1E
	1050	1307	1.3F
	1649	2043	1.1E
	2318		
9		0133	1.2F
Th	0506	0823	1.2E
	1142	1417	1.5F
	1749	2118	1.2E
10	0014	0234	1.3F
F	0559	0855	1.4E
	1234	1520	1.7F
	1844	2210	1.3E
11	0108	0330	1.5F
Sa	0648	0939	1.6E
	1323	1623	1.9F
	1934	2316	1.5E
12	0158	0428	1.6F
Su	0735	1038	1.8E
	1410	1714	2.2F
	2022		
13		0000	1.7E
M	0245	0520	1.8F
	0821	1138	1.9E
	1459	1755	2.3F
	2111		
14		0037	1.8E
Tu	0332	0603	1.9F
	0911	1224	2.1E
	1548	1835	2.4F
	2202		
15		0115	1.9E
W	0421	0646	2.0F
	1003	1308	2.1E
	1638	1919	2.4F
	2252		
16		0159	1.9E
Th	0510	0734	2.0F
	1057	1357	2.1E
	1729	2012	2.3F
	2342		
17		0255	1.8E
F	0601	0834	1.9F
	1150	1456	2.0E
	1820	2121	2.2F
18	0032	0355	1.8E
Sa	0657	0950	1.8F
	1247	1602	1.8E
	1919	2224	2.0F
19	0126	0457	1.7E
Su	0756	1055	1.8F
	1347	1719	1.6E
	2019	2322	1.9F
20	0220	0619	1.6E
M	0854	1207	1.7F
	1450	1859	1.5E
	2119		
21		0037	1.7F
Tu	0317	0732	1.7E
	0951	1321	1.7F
	1556	2005	1.5E
	2217		
22		0147	1.6F
W	0413	0827	1.7E
	1048	1422	1.8F
	1701	2059	1.6E
	2315		
23		0245	1.6F
Th	0510	0918	1.8E
	1142	1517	1.8F
	1805	2152	1.6E
24	0012	0339	1.5F
F	0604	1009	1.7E
	1236	1610	1.9F
	1859	2248	1.6E
25	0107	0431	1.5F
Sa	0652	1102	1.7E
	1323	1700	1.9F
	1942	2340	1.6E
26	0155	0520	1.5F
Su	0737	1150	1.7E
	1409	1745	2.0F
	2024		
27		0025	1.6E
M	0239	0602	1.5F
	0818	1232	1.7E
	1451	1824	1.9F
	2104		
28		0105	1.6E
Tu	0321	0636	1.5F
	0859	1306	1.6E
	1533	1856	1.9F
	2145		
29		0142	1.5E
W	0404	0653	1.4F
	0940	1327	1.5E
	1614	1907	1.8F
	2226		
30		0215	1.4E
Th	0445	0659	1.4F
	1022	1324	1.5E
	1655	1922	1.8F
	2305		
31		0227	1.3E
F	0526	0732	1.4F
	1105	1340	1.4E
	1736	1959	1.7F
	2344		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0220	1.3E
Sa	0608	0817	1.4F
	1149	1414	1.4E
	1818	2045	1.6F
2	0024	0249	1.3E
Su	0651	0907	1.4F
	1233	1456	1.3E
	1905	2133	1.6F
3	0106	0329	1.3E
M	0740	0957	1.4F
	1322	1541	1.3E
	1956	2218	1.5F
4	0150	0410	1.3E
Tu	0830	1043	1.4F
	1418	1630	1.2E
	2049	2303	1.5F
5	0238	0456	1.3E
W	0920	1132	1.5F
	1514	1724	1.1E
	2143	2353	1.4F
6	0328	0550	1.3E
Th	1010	1228	1.5F
	1613	1840	1.1E
	2238		
7		0049	1.3F
F	0420	0704	1.4E
	1102	1332	1.6F
	1714	2013	1.2E
	2336		
8		0150	1.4F
Sa	0516	0808	1.5E
	1158	1434	1.8F
	1813	2107	1.3E
9	0032	0249	1.5F
Su	0611	0859	1.7E
	1251	1539	2.0F
	1909	2221	1.4E
10	0128	0350	1.6F
M	0705	0958	1.8E
	1345	1652	2.2F
	2000	2341	1.6E
11	0220	0457	1.7F
Tu	0758	1119	1.9E
	1438	1747	2.3F
	2051		
12		0030	1.8E
W	0311	0554	1.9F
	0851	1220	2.1E
	1529	1831	2.4F
	2143		
13		0114	1.9E
Th	0402	0641	2.0F
	0948	1311	2.1E
	1621	1916	2.4F
	2236		
14		0202	2.0E
F	0454	0732	2.0F
	1042	1405	2.1E
	1712	2012	2.3F
	2326		
15		0257	2.0E
Sa	0546	0844	2.0F
	1139	1507	2.0E
	1805	2122	2.2F
16	0013	0351	2.0E
Su	0638	0955	2.0F
	1233	1609	1.9E
	1859	2218	2.1F
17	0102	0444	1.9E
M	0733	1049	2.0F
	1330	1711	1.7E
	1956	2307	1.9F
18	0153	0545	1.8E
Tu	0829	1146	1.9F
	1430	1828	1.5E
	2052		
19		0004	1.7F
W	0246	0658	1.7E
	0923	1249	1.8F
	1530	1938	1.5E
	2148		
20		0112	1.5F
Th	0338	0758	1.7E
	1017	1352	1.7F
	1631	2034	1.5E
	2243		
21		0213	1.4F
F	0431	0849	1.6E
	1110	1448	1.7F
	1732	2126	1.4E
	2340		
22		0308	1.3F
Sa	0527	0939	1.6E
	1203	1541	1.7F
	1829	2220	1.4E
23	0035	0401	1.3F
Su	0619	1033	1.5E
	1254	1634	1.7F
	1918	2315	1.4E
24	0127	0454	1.3F
M	0707	1126	1.5E
	1341	1723	1.8F
	2000		
25		0004	1.4E
Tu	0213	0540	1.3F
	0750	1212	1.5E
	1428	1804	1.8F
	2040		
26		0047	1.4E
W	0258	0618	1.4F
	0832	1250	1.5E
	1510	1840	1.8F
	2121		
27		0125	1.4E
Th	0340	0647	1.4F
	0917	1320	1.5E
	1551	1904	1.7F
	2201		
28		0159	1.4E
F	0421	0647	1.4F
	1000	1328	1.4E
	1632	1905	1.7F
	2240		
29		0219	1.4E
Sa	0502	0713	1.4F
	1044	1328	1.4E
	1712	1935	1.7F
	2319		
30		0203	1.4E
Su	0541	0753	1.5F
	1128	1356	1.4E
	1753	2017	1.7F
	2357		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

JULY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0226	1.4E
M	0622	0841	1.5F
	1211	1435	1.4E
	1837	2103	1.7F
2	0035	0302	1.5E
Tu	0707	0930	1.6F
	1258	1519	1.4E
	1923	2150	1.6F
3	0116	0342	1.5E
W	0753	1017	1.7F
	1348	1604	1.3E
	2015	2234	1.6F
4	0200	0426	1.6E
Th	0843	1103	1.7F
	1442	1653	1.3E
	2108	2321	1.5F
5	0249	0515	1.5E
F	0935	1155	1.7F
	1540	1753	1.2E
	2203		
6		0014	1.4F
Sa	0341	0616	1.3E
	1029	1255	1.7F
	1641	1923	1.2E
	2301		
7		0114	1.4F
Su	0440	0732	1.6E
	1127	1403	1.8F
	1745	2042	1.3E
8	0002	0219	1.4F
M	0541	0837	1.7E
	1227	1516	1.9F
	1845	2202	1.4E
9	0102	0326	1.5F
Tu	0642	0944	1.8E
	1324	1644	2.1F
	1940	2328	1.6E
10	0159	0456	1.7F
W	0740	1122	1.9E
	1419	1743	2.3F
	2032		
11		0022	1.8E
Th	0252	0557	1.9F
	0837	1225	2.1E
	1512	1830	2.4F
	2125		
12		0107	2.0E
F	0345	0645	2.1F
	0933	1315	2.2E
	1606	1915	2.4F
	2216		
13		0153	2.1E
Sa	0436	0735	2.1F
	1030	1406	2.2E
	1656	2005	2.3F
	2303		
14		0242	2.1E
Su	0525	0836	2.2F
	1123	1501	2.1E
	1746	2103	2.2F
	2350		
15		0331	2.1E
M	0614	0936	2.1F
	1216	1554	1.9E
	1836	2156	2.1F
16	0036	0417	2.0E
Tu	0706	1027	2.1F
	1308	1646	1.7E
	1928	2241	1.9F
17	0121	0506	1.8E
W	0758	1115	1.9F
	1401	1749	1.5E
	2021	2324	1.7F
18	0210	0611	1.6E
Th	0850	1209	1.8F
	1458	1905	1.3E
	2116		
19		0021	1.4F
F	0300	0724	1.5E
	0942	1315	1.6F
	1553	2006	1.3E
	2209		
20		0135	1.2F
Sa	0351	0821	1.5E
	1036	1416	1.5F
	1652	2059	1.2E
	2304		
21		0235	1.2F
Su	0448	0911	1.4E
	1130	1511	1.5F
	1754	2152	1.2E
22	0001	0331	1.1F
M	0544	1005	1.4E
	1225	1606	1.5F
	1849	2248	1.2E
23	0058	0427	1.2F
Tu	0639	1102	1.4E
	1317	1658	1.6F
	1934	2341	1.3E
24	0148	0517	1.3F
W	0727	1152	1.4E
	1402	1743	1.7F
	2016		
25		0025	1.4E
Th	0232	0600	1.3F
	0810	1233	1.5E
	1448	1821	1.7F
	2056		
26		0103	1.4E
F	0317	0633	1.4F
	0856	1307	1.5E
	1530	1850	1.7F
	2135		
27		0135	1.4E
Sa	0358	0648	1.5F
	0940	1327	1.5E
	1610	1852	1.7F
	2212		
28		0151	1.4E
Su	0437	0657	1.6F
	1023	1323	1.5E
	1650	1913	1.8F
	2250		
29		0139	1.5E
M	0514	0730	1.7F
	1106	1340	1.5E
	1729	1950	1.8F
	2327		
30		0159	1.6E
Tu	0552	0813	1.7F
	1149	1414	1.5E
	1809	2033	1.7F
31	0003	0233	1.7E
W	0632	0902	1.8F
	1232	1455	1.5E
	1853	2121	1.7F

AUGUST

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1	0042	0314	1.7E
Th	0718	0950	1.9F
	1320	1540	1.5E
	1942	2207	1.7F
2	0127	0358	1.7E
F	0809	1037	1.9F
	1414	1628	1.4E
	2038	2254	1.6F
3	0217	0446	1.7E
Sa	0903	1127	1.8F
	1512	1722	1.2E
	2135	2345	1.5F
4	0312	0543	1.6E
Su	1001	1226	1.7F
	1615	1845	1.1E
	2235		
5		0046	1.4F
M	0415	0707	1.5E
	1102	1340	1.7F
	1720	2046	1.2E
	2339		
6		0159	1.4F
Tu	0521	0837	1.6E
	1207	1519	1.8F
	1824	2204	1.4E
7	0041	0332	1.5F
W	0628	1004	1.7E
	1308	1637	2.0F
	1921	2315	1.6E
8	0140	0459	1.8F
Th	0729	1127	1.9E
	1403	1733	2.2F
	2013		
9		0008	1.9E
F	0233	0554	2.0F
	0825	1223	2.1E
	1458	1820	2.4F
	2103		
10		0053	2.1E
Sa	0325	0640	2.2F
	0920	1309	2.2E
	1548	1902	2.4F
	2151		
11		0135	2.2E
Su	0414	0725	2.3F
	1014	1355	2.2E
	1637	1946	2.3F
	2239		
12		0218	2.2E
M	0500	0814	2.3F
	1105	1443	2.1E
	1722	2035	2.2F
	2321		
13		0303	2.1E
Tu	0547	0907	2.2F
	1152	1531	1.9E
	1809	2125	2.0F
14	0005	0344	2.0E
W	0633	0957	2.1F
	1239	1616	1.7E
	1858	2207	1.8F
15	0048	0422	1.8E
Th	0722	1039	1.9F
	1328	1704	1.4E
	1949	2237	1.6F
16	0132	0457	1.5E
F	0814	1118	1.7F
	1419	1818	1.2E
	2041	2303	1.3F
17	0221	0634	1.3E
Sa	0908	1217	1.5F
	1512	1935	1.1E
	2134	2342	1.1F
18	0313	0752	1.2E
Su	1000	1339	1.3F
	1610	2033	1.1E
	2230		
19		0201	1.0F
M	0410	0846	1.2E
	1057	1440	1.3F
	1712	2124	1.1E
	2328		
20		0302	1.0F
Tu	0510	0938	1.2E
	1153	1536	1.4F
	1813	2218	1.1E
21	0026	0358	1.1F
W	0610	1035	1.3E
	1249	1629	1.5F
	1903	2312	1.2E
22	0119	0451	1.2F
Th	0703	1127	1.4E
	1339	1717	1.6F
	1947	2358	1.4E
23	0205	0536	1.4F
F	0750	1210	1.5E
	1422	1757	1.7F
	2025		
24		0035	1.5E
Sa	0248	0611	1.5F
	0834	1245	1.5E
	1506	1827	1.7F
	2102		
25		0104	1.5E
Su	0329	0632	1.7F
	0918	1308	1.6E
	1547	1832	1.8F
	2140		
26		0113	1.6E
M	0407	0639	1.8F
	1000	1312	1.6E
	1627	1849	1.8F
	2218		
27		0111	1.7E
Tu	0444	0707	1.9F
	1042	1324	1.6E
	1705	1923	1.8F
	2255		
28		0131	1.8E
W	0521	0747	2.0F
	1126	1354	1.6E
	1745	2004	1.8F
	2333		
29		0205	1.8E
Th	0601	0833	2.0F
	1209	1433	1.6E
	1828	2052	1.8F
30	0014	0247	1.9E
F	0648	0924	2.0F
	1257	1518	1.5E
	1917	2142	1.7F
31	0059	0334	1.8E
Sa	0740	1014	2.0F
	1349	1607	1.4E
	2012	2231	1.6F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

MIAMI HARBOR ENTRANCE, FLORIDA, 1991

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0151	0423	1.7E
	0839	1105	1.8F
	1449	1701	1.2E
	2113	2324	1.5F
2 M	0252	0522	1.5E
	0941	1203	1.7F
	1551	1900	1.1E
	2217		
3 Tu		0026	1.4F
	0359	0719	1.4E
	1045	1334	1.6F
	1659	2054	1.3E
	2320		
4 W		0212	1.4F
	0509	0905	1.6E
	1150	1519	1.8F
	1804	2155	1.5E
5 Th	0023	0346	1.6F
	0619	1015	1.7E
	1251	1623	1.9F
	1901	2257	1.7E
6 F	0121	0449	1.9F
	0719	1120	1.9E
	1349	1717	2.1F
	1951	2349	2.0E
7 Sa	0214	0541	2.2F
	0813	1212	2.1E
	1439	1804	2.3F
	2039		
8 Su		0034	2.2E
	0302	0625	2.3F
	0906	1257	2.2E
	1529	1845	2.3F
	2125		
9 M		0114	2.2E
	0349	0706	2.4F
	0956	1339	2.2E
	1614	1923	2.2F
	2209		
10 Tu		0152	2.2E
	0433	0747	2.3F
	1041	1421	2.0E
	1659	2000	2.0F
	2251		
11 W		0229	2.1E
	0518	0830	2.2F
	1127	1503	1.8E
	1741	2038	1.8F
	2332		
12 Th		0303	1.9E
	0600	0916	2.0F
	1209	1542	1.6E
	1827	2113	1.6F
13 F	0013	0330	1.7E
	0647	0955	1.8F
	1252	1615	1.4E
	1914	2145	1.5F
14 Sa	0058	0352	1.5E
	0737	1020	1.6F
	1340	1636	1.1E
	2007	2222	1.3F
15 Su	0144	0419	1.3E
	0830	1054	1.4F
	1431	1857	0.9E
	2100	2303	1.1F
16 M	0238	0500	1.0E
	0926	1139	1.2F
	1529	2004	0.9E
	2157	2353	1.0F
17 Tu	0336	0820	1.1E
	1021	1405	1.2F
	1629	2055	1.0E
	2253		
18 W		0230	1.0F
	0439	0911	1.1E
	1119	1502	1.2F
	1730	2144	1.1E
	2351		
19 Th		0327	1.1F
	0541	1002	1.2E
	1217	1556	1.3F
	1823	2235	1.2E
20 F	0045	0419	1.3F
	0639	1055	1.3E
	1309	1644	1.5F
	1909	2322	1.3E
21 Sa	0131	0506	1.5F
	0727	1142	1.4E
	1355	1726	1.6F
	1949		
22 Su		0000	1.5E
	0215	0543	1.7F
	0810	1218	1.5E
	1439	1756	1.7F
	2027		
23 M		0025	1.6E
	0255	0606	1.8F
	0852	1243	1.6E
	1520	1804	1.7F
	2105		
24 Tu		0031	1.7E
	0335	0616	2.0F
	0937	1253	1.7E
	1600	1824	1.8F
	2144		
25 W		0040	1.8E
	0414	0645	2.1F
	1020	1308	1.7E
	1640	1859	1.9F
	2225		
26 Th		0107	1.9E
	0454	0723	2.2F
	1103	1337	1.7E
	1721	1940	1.9F
	2307		
27 F		0143	2.0E
	0537	0809	2.2F
	1149	1416	1.7E
	1807	2028	1.8F
	2350		
28 Sa		0226	1.9E
	0624	0901	2.1F
	1237	1503	1.6E
	1858	2121	1.7F
29 Su	0040	0316	1.8E
	0719	0955	2.0F
	1330	1554	1.4E
	1956	2214	1.6F
30 M	0137	0410	1.6E
	0820	1049	1.8F
	1429	1652	1.3E
	2059	2310	1.5F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0240	0513	1.4E
	0925	1148	1.7F
	1531	1943	1.2E
	2200		
2 W		0018	1.4F
	0349	0804	1.4E
	1029	1356	1.6F
	1637	2044	1.5E
	2303		
3 Th		0231	1.5F
	0500	0907	1.6E
	1132	1505	1.7F
	1740	2138	1.7E
4 F	0005	0335	1.8F
	0610	1005	1.8E
	1234	1603	1.9F
	1839	2234	1.8E
5 Sa	0101	0432	2.0F
	0710	1105	1.9E
	1330	1657	2.0F
	1928	2327	2.0E
6 Su	0151	0523	2.2F
	0800	1157	2.0E
	1420	1744	2.1F
	2012		
7 M		0012	2.1E
	0239	0607	2.4F
	0849	1240	2.1E
	1508	1825	2.1F
	2056		
8 Tu		0052	2.1E
	0323	0646	2.4F
	0933	1321	2.0E
	1551	1900	2.0F
	2139		
9 W		0127	2.1E
	0407	0721	2.3F
	1018	1359	1.9E
	1634	1928	1.8F
	2220		
10 Th		0157	1.9E
	0449	0751	2.1F
	1059	1437	1.7E
	1716	1946	1.7F
	2300		
11 F		0218	1.7E
	0530	0814	1.9F
	1139	1509	1.5E
	1758	2017	1.5F
	2341		
12 Sa		0234	1.6E
	0612	0851	1.8F
	1220	1525	1.3E
	1841	2101	1.4F
13 Su	0024	0301	1.4E
	0700	0934	1.6F
	1306	1540	1.1E
	1932	2148	1.3F
14 M	0110	0338	1.3E
	0752	1017	1.5F
	1354	1613	1.0E
	2028	2233	1.2F
15 Tu	0203	0420	1.1E
	0849	1101	1.3F
	1448	1927	0.9E
	2122	2321	1.1F
16 W	0302	0747	0.9E
	0946	1152	1.2F
	1543	2022	1.0E
	2219		
17 Th		0020	1.0F
	0404	0840	1.0E
	1041	1419	1.1F
	1640	2106	1.1E
	2312		
18 F		0248	1.1F
	0509	0927	1.1E
	1139	1511	1.2F
	1736	2147	1.2E
19 Sa	0007	0339	1.3F
	0608	1015	1.2E
	1233	1600	1.3F
	1825	2230	1.3E
20 Su	0055	0426	1.5F
	0659	1105	1.3E
	1322	1643	1.4F
	1909	2308	1.4E
21 M	0139	0507	1.8F
	0743	1145	1.5E
	1408	1714	1.6F
	1949	2331	1.6E
22 Tu	0221	0533	2.0F
	0828	1214	1.6E
	1451	1730	1.7F
	2030	2347	1.7E
23 W	0303	0553	2.2F
	0911	1233	1.7E
	1535	1800	1.8F
	2112		
24 Th		0015	1.9E
	0347	0625	2.3F
	0958	1255	1.7E
	1619	1837	1.9F
	2158		
25 F		0048	2.0E
	0430	0704	2.3F
	1043	1327	1.8E
	1702	1919	1.9F
	2245		
26 Sa		0128	2.0E
	0518	0750	2.3F
	1131	1408	1.7E
	1749	2008	1.8F
	2334		
27 Su		0214	1.9E
	0608	0844	2.1F
	1220	1459	1.6E
	1841	2106	1.7F
28 M	0028	0308	1.8E
	0702	0943	2.0F
	1312	1556	1.5E
	1940	2206	1.7F
29 Tu	0126	0409	1.6E
	0805	1040	1.9F
	1410	1706	1.4E
	2042	2306	1.6F
30 W	0230	0534	1.4E
	0908	1144	1.7F
	1510	1923	1.5E
	2143		
31 Th		0100	1.5F
	0339	0755	1.5E
	1010	1338	1.6F
	1611	2025	1.6E
	2242		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 293° True E-Ebb, Dir. 112° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0217	1.7F	16		0046	1.2F
F	0450	0854	1.6E	Sa	0430	0845	1.0E
	1111	1443	1.7F		1058	1310	1.2F
	1712	2116	1.8E		1644	2040	1.2E
	2341				2322		
2		0315	1.9F	17		0208	1.4F
Sa	0558	0948	1.7E	Su	0530	0924	1.1E
	1217	1539	1.7F		1153	1413	1.2F
	1810	2208	1.9E		1738	2051	1.3E
3	0038	0410	2.0F	18	0014	0314	1.6F
Su	0656	1045	1.8E	M	0626	1007	1.2E
	1309	1633	1.8F		1247	1508	1.3F
	1900	2302	1.9E		1827	2121	1.5E
4	0128	0501	2.2F	19	0102	0407	1.8F
M	0744	1137	1.9E	Tu	0715	1101	1.4E
	1359	1722	1.8F		1337	1602	1.5F
	1945	2350	2.0E		1913	2207	1.6E
5	0214	0547	2.2F	20	0150	0455	2.0F
Tu	0829	1223	1.9E	W	0801	1145	1.5E
	1444	1804	1.8F		1423	1654	1.6F
	2028				1959	2306	1.8E
6		0031	2.0E	21	0237	0534	2.2F
W	0258	0626	2.2F	Th	0849	1219	1.7E
	0911	1305	1.8E		1510	1739	1.8F
	1528	1840	1.8F		2047	2357	1.9E
	2109						
7		0107	1.9E	22	0323	0611	2.3F
Th	0340	0701	2.1F	F	0938	1251	1.8E
	0952	1342	1.7E		1558	1821	1.9F
	1610	1907	1.7F		2137		
	2150						
8		0136	1.8E	23		0040	2.0E
F	0421	0725	2.0F	Sa	0411	0652	2.4F
	1033	1417	1.6E		1027	1328	1.8E
	1650	1915	1.6F		1646	1906	1.9F
	2231				2229		
9		0148	1.6E	24		0124	2.1E
Sa	0502	0738	1.9F	Su	0501	0738	2.3F
	1113	1446	1.4E		1116	1414	1.8E
	1731	1944	1.5F		1735	1957	1.9F
	2313				2321		
10		0158	1.5E	25		0215	2.0E
Su	0544	0812	1.7F	M	0551	0834	2.2F
	1153	1450	1.3E		1204	1511	1.8E
	1815	2027	1.4F		1828	2102	1.8F
	2357						
11		0227	1.4E	26	0018	0317	1.8E
M	0629	0858	1.6F	Tu	0648	0941	2.1F
	1235	1507	1.2E		1255	1611	1.7E
	1901	2117	1.3F		1923	2213	1.8F
12	0041	0307	1.3E	27	0116	0424	1.7E
Tu	0718	0944	1.5F	W	0747	1039	1.9F
	1320	1542	1.1E		1349	1719	1.6E
	1954	2205	1.3F		2023	2319	1.8F
13	0132	0351	1.2E	28	0219	0604	1.5E
W	0811	1030	1.4F	Th	0848	1143	1.7F
	1409	1623	1.1E		1445	1853	1.6E
	2048	2253	1.2F		2121		
14	0229	0439	1.0E	29		0042	1.7F
Th	0908	1115	1.3F	F	0323	0734	1.5E
	1459	1711	1.0E		0948	1310	1.6F
	2140	2343	1.2F		1541	1959	1.7E
					2219		
15	0329	0539	0.9E	30		0152	1.8F
F	1001	1207	1.2F	Sa	0430	0833	1.6E
	1551	2015	1.1E		1047	1416	1.6F
	2231				1639	2051	1.8E
					2315		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0251	1.9F	16		0103	1.5F
Su	0537	0926	1.6E	M	0450	0753	1.0E
	1146	1512	1.6F		1111	1322	1.3F
	1738	2142	1.8E		1650	1940	1.4E
					2334		
2	0010	0345	1.9F	17		0208	1.6F
M	0636	1022	1.6E	Tu	0550	0849	1.1E
	1242	1607	1.6F		1209	1422	1.3F
	1830	2236	1.8E		1747	2035	1.5E
3	0101	0438	2.0F	18	0029	0310	1.8F
Tu	0725	1116	1.7E	W	0646	0949	1.3E
	1334	1659	1.6F		1305	1521	1.4F
	1918	2328	1.8E		1841	2128	1.7E
4	0149	0526	2.0F	19	0121	0422	2.0F
W	0809	1205	1.7E	Th	0738	1121	1.4E
	1420	1744	1.6F		1358	1625	1.6F
	2000				1933	2239	1.8E
5		0014	1.8E	20	0214	0524	2.2F
Th	0234	0608	2.0F	F	0828	1210	1.6E
	0850	1248	1.7E		1449	1727	1.8F
	1506	1824	1.6F		2027	2353	2.0E
	2042						
6		0053	1.7E	21	0306	0608	2.3F
F	0318	0645	2.0F	Sa	0919	1251	1.8E
	0930	1327	1.6E		1539	1816	1.9F
	1548	1855	1.5F		2120		
	2125						
7		0125	1.6E	22		0044	2.1E
Sa	0359	0714	1.9F	Su	0357	0649	2.4F
	1010	1404	1.5E		1009	1333	1.9E
	1629	1902	1.5F		1629	1902	2.0F
	2208				2217		
8		0142	1.5E	23		0132	2.1E
Su	0440	0720	1.8F	M	0448	0734	2.4F
	1050	1435	1.4E		1059	1420	2.0E
	1710	1922	1.4F		1719	1956	2.0F
	2250				2310		
9		0142	1.5E	24		0227	2.1E
M	0520	0746	1.7F	Tu	0538	0834	2.3F
	1129	1436	1.3E		1147	1513	2.0E
	1750	2001	1.4F		1809	2112	2.0F
	2332						
10		0205	1.4E	25	0006	0329	1.9E
Tu	0601	0827	1.7F	W	0630	0940	2.2F
	1208	1442	1.3E		1233	1605	2.0E
	1833	2049	1.4F		1902	2216	2.0F
11	0018	0241	1.3E	26	0100	0429	1.8E
W	0646	0914	1.6F	Th	0726	1031	2.0F
	1248	1514	1.3E		1323	1658	1.9E
	1920	2138	1.4F		1959	2309	2.0F
12	0104	0325	1.3E	27	0200	0539	1.6E
Th	0735	0959	1.5F	F	0822	1122	1.8F
	1330	1552	1.3E		1416	1811	1.7E
	2009	2224	1.4F		2055		
13	0157	0410	1.2E	28		0011	1.9F
F	0828	1043	1.5F	Sa	0300	0704	1.5E
	1416	1634	1.3E		0920	1230	1.6F
	2059	2311	1.4F		1509	1927	1.7E
					2149		
14	0251	0459	1.1E	29		0121	1.8F
Sa	0921	1129	1.4F	Su	0401	0808	1.5E
	1504	1723	1.3E		1017	1343	1.4F
	2149				1603	2025	1.7E
					2244		
15		0002	1.5F	30		0222	1.7F
Su	0350	0600	1.0E	M	0506	0902	1.4E
	1016	1222	1.3F		1114	1443	1.4F
	1556	1826	1.3E		1701	2117	1.6E
	2240				2340		
				31		0318	1.7F
				Tu	0609	0957	1.4E
					1213	1539	1.3F
					1759	2210	1.6E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

KEY WEST, FLORIDA, 1991

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0447	0105	2.6E
	1048	0748	1.8F
	1720	1351	2.0E
	2225	1952	1.2F
2 W	0535	0154	2.5E
	1130	0833	1.7F
	1806	1433	2.0E
	2316	2039	1.2F
3 Th	0623	0242	2.3E
	1210	0915	1.5F
	1853	1516	2.0E
		2127	1.1F
4 F	0007	0328	2.1E
	0712	0957	1.3F
	1249	1559	1.9E
	1943	2216	1.0F
5 Sa	0100	0419	1.8E
	0803	1038	1.0F
	1327	1645	1.8E
	2037	2310	0.9F
6 Su	0156	0508	1.6E
	0859	1124	0.7F
	1406	1733	1.7E
	2136		
7 M		0015	0.7F
	0257	0606	1.3E
	1002	1218	0.5F
	1447	1824	1.5E
	2240		
8 Tu		0137	0.7F
	0404	0713	1.1E
	1116	1324	0.3F
	1534	1926	1.5E
	2346		
9 W		0254	0.7F
	0514	0829	1.0E
	1235	1451	0.3F
	1629	2032	1.5E
10 Th	0048	0357	0.8F
	0620	0948	1.0E
	1345	1557	0.3F
	1730	2133	1.5E
11 F	0140	0451	0.9F
	0719	1043	1.1E
	1434	1650	0.4F
	1828	2224	1.6E
12 Sa	0225	0534	1.0F
	0808	1132	1.2E
	1512	1729	0.5F
	1920	2312	1.8E
13 Su	0304	0615	1.2F
	0851	1207	1.4E
	1544	1804	0.6F
	2007	2351	1.9E
14 M	0341	0648	1.2F
	0930	1236	1.5E
	1614	1836	0.7F
	2049		
15 Tu		0028	2.0E
	0415	0713	1.3F
	1005	1306	1.6E
	1643	1902	0.8F
	2129		
16 W		0102	2.1E
	0450	0740	1.3F
	1037	1338	1.7E
	1713	1932	0.9F
	2207		
17 Th		0140	2.1E
	0524	0804	1.3F
	1107	1410	1.8E
	1744	2007	1.0F
	2246		
18 F		0216	2.1E
	0600	0835	1.3F
	1135	1444	1.8E
	1818	2042	1.1F
	2328		
19 Sa		0255	2.0E
	0637	0908	1.2F
	1203	1521	1.9E
	1857	2121	1.1F
20 Su	0013	0340	1.9E
	0719	0943	1.1F
	1232	1602	1.9E
	1942	2209	1.1F
21 M	0106	0428	1.7E
	0806	1026	0.9F
	1304	1651	1.9E
	2035	2304	1.0F
22 Tu	0208	0523	1.5E
	0903	1113	0.7F
	1341	1742	1.8E
	2138		
23 W		0009	0.9F
	0323	0626	1.3E
	1014	1211	0.5F
	1431	1844	1.8E
	2249		
24 Th		0131	0.9F
	0447	0741	1.2E
	1135	1324	0.4F
	1539	1953	1.8E
25 F	0002	0307	1.0F
	0606	0904	1.2E
	1255	1457	0.4F
	1705	2108	1.9E
26 Sa	0109	0423	1.2F
	0715	1021	1.4E
	1359	1618	0.6F
	1826	2218	2.1E
27 Su	0209	0522	1.5F
	0812	1125	1.6E
	1451	1723	0.8F
	1935	2316	2.3E
28 M	0302	0613	1.6F
	0901	1210	1.8E
	1536	1814	1.1F
	2035		
29 Tu		0011	2.4E
	0351	0656	1.7F
	0945	1255	2.0E
	1619	1900	1.3F
	2129		
30 W		0059	2.5E
	0437	0737	1.7F
	1025	1333	2.1E
	1700	1945	1.4F
	2219		
31 Th		0141	2.5E
	0520	0813	1.6F
	1102	1413	2.2E
	1741	2025	1.4F
	2306		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0603	0224	2.3E
	1136	0849	1.4F
	1823	1449	2.1E
	2352	2103	1.3F
2 Sa	0645	0305	2.1E
	1209	0921	1.2F
	1906	1524	2.1E
		2144	1.2F
3 Su	0037	0346	1.8E
	0728	0953	1.0F
	1241	1603	1.9E
	1953	2228	1.0F
4 M	0123	0429	1.6E
	0815	1028	0.7F
	1311	1644	1.8E
	2046	2313	0.8F
5 Tu	0214	0517	1.3E
	0910	1111	0.5F
	1342	1730	1.6E
	2147		
6 W		0017	0.6F
	0314	0613	1.0E
	1021	1158	0.3F
	1417	1827	1.4E
	2258		
7 Th		0155	0.5F
	0425	0727	0.9E
		1316	*
		1935	1.4E
8 F	0012	0323	0.6F
	0540	0903	0.9E
		1520	*
		2051	1.4E
9 Sa	0115	0424	0.7F
	0646	1015	1.0E
	1419	1627	0.3F
	1756	2202	1.5E
10 Su	0205	0515	0.9F
	0740	1106	1.2E
	1451	1715	0.4F
	1859	2253	1.7E
11 M	0246	0554	1.1F
	0824	1143	1.4E
	1519	1748	0.6F
	1952	2335	1.9E
12 Tu	0322	0625	1.2F
	0902	1212	1.5E
	1546	1817	0.8F
	2037		
13 W		0010	2.0E
	0356	0652	1.3F
	0935	1240	1.7E
	1614	1846	1.0F
	2119		
14 Th		0045	2.1E
	0429	0715	1.3F
	1006	1311	1.9E
	1642	1914	1.2F
	2159		
15 F		0122	2.2E
	0503	0740	1.3F
	1034	1342	2.0E
	1713	1947	1.3F
	2239		
16 Sa		0158	2.2E
	0537	0808	1.3F
	1101	1417	2.1E
	1748	2024	1.4F
	2321		
17 Su		0237	2.1E
	0614	0839	1.2F
	1128	1452	2.2E
	1827	2103	1.4F
18 M	0005	0318	2.0E
	0654	0914	1.1F
	1156	1534	2.2E
	1912	2148	1.3F
19 Tu	0055	0405	1.7E
	0740	0956	0.9F
	1228	1620	2.1E
	2006	2241	1.2F
20 W	0154	0458	1.5E
	0837	1045	0.7F
	1305	1714	1.9E
	2110	2343	1.0F
21 Th	0306	0603	1.2E
	0951	1142	0.5F
	1355	1815	1.8E
	2227		
22 F		0112	0.9F
	0428	0723	1.1E
	1123	1303	0.3F
	1514	1934	1.7E
	2349		
23 Sa		0301	0.9F
	0549	0857	1.1E
	1248	1500	0.4F
	1657	2057	1.8E
24 Su	0102	0418	1.1F
	0656	1015	1.3E
	1350	1624	0.6F
	1824	2214	2.0E
25 M	0203	0511	1.3F
	0751	1112	1.6E
	1438	1721	0.9F
	1933	2315	2.2E
26 Tu	0255	0601	1.5F
	0837	1155	1.9E
	1519	1806	1.2F
	2031		
27 W		0003	2.3E
	0341	0640	1.5F
	0917	1233	2.0E
	1558	1849	1.4F
	2122		
28 Th		0048	2.4E
	0423	0715	1.5F
	0954	1309	2.2E
	1636	1928	1.5F
	2208		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0127	2.3E	16		0102	2.2E
F	0502	0748	1.4F	Sa	0439	0709	1.3F
	1027	1342	2.2E		0956	1313	2.2E
	1713	2004	1.5F		1643	1926	1.6F
	2251				2228		
2		0203	2.2E	17		0137	2.2E
Sa	0540	0817	1.3F	Su	0515	0740	1.2F
	1058	1415	2.2E		1025	1348	2.3E
	1751	2037	1.4F		1721	2005	1.6F
	2331				2312		
3		0238	2.0E	18		0220	2.1E
Su	0617	0843	1.1F	M	0553	0813	1.2F
	1128	1446	2.1E		1055	1426	2.4E
	1830	2111	1.3F		1802	2046	1.6F
					2358		
4	0011	0315	1.8E	19		0303	1.9E
M	0655	0912	0.9F	Tu	0635	0852	1.0F
	1155	1524	2.0E		1127	1509	2.3E
	1913	2148	1.1F		1850	2132	1.5F
5	0051	0356	1.5E	20	0048	0350	1.7E
Tu	0737	0947	0.7F	W	0724	0935	0.9F
	1221	1604	1.8E		1202	1558	2.2E
	2001	2229	0.9F		1946	2225	1.3F
6	0135	0435	1.3E	21	0146	0442	1.4E
W	0827	1022	0.5F	Th	0825	1024	0.6F
	1246	1649	1.6E		1246	1653	2.0E
	2058	2320	0.7F		2053	2330	1.0F
7	0228	0527	1.1E	22	0254	0549	1.2E
Th	0934	1111	0.3F	F	0943	1130	0.4F
	1313	1742	1.4E		1346	1802	1.8E
	2208				2213		
8		0031	0.5F	23		0104	0.9F
F	0336	0634	0.9E	Sa	0410	0710	1.1E
		1218	*		1115	1309	0.3F
		1847	1.3E		1520	1924	1.6E
	2329				2337		
9		0238	0.5F	24		0248	0.9F
Sa	0453	0804	0.8E	Su	0524	0845	1.2E
		1425	*		1235	1504	0.6F
		2009	1.3E		1701	2054	1.7E
10	0040	0349	0.6F	25	0052	0400	1.0F
Su	0603	0936	1.0E	M	0628	0954	1.4E
		1555	*		1331	1615	0.8F
		2127	1.4E		1822	2208	1.8E
11	0135	0443	0.8F	26	0152	0453	1.2F
M	0659	1027	1.2E	Tu	0720	1047	1.7E
	1412	1644	0.5F		1416	1706	1.1F
	1836	2227	1.6E		1928	2303	2.0E
12	0218	0518	0.9F	27	0243	0538	1.3F
Tu	0745	1104	1.4E	W	0804	1129	1.9E
	1441	1719	0.7F		1456	1756	1.3F
	1932	2308	1.8E		2022	2352	2.1E
13	0256	0551	1.1F	28	0326	0617	1.3F
W	0823	1135	1.6E	Th	0842	1204	2.1E
	1509	1751	1.0F		1534	1833	1.5F
	2020	2347	2.0E		2110		
14	0331	0618	1.2F	29		0031	2.1E
Th	0856	1206	1.9E	F	0405	0650	1.3F
	1538	1820	1.2F		0917	1239	2.2E
	2104				1610	1910	1.5F
					2152		
15		0022	2.1E	30		0108	2.1E
F	0405	0641	1.2F	Sa	0441	0721	1.2F
	0927	1238	2.1E		0949	1311	2.2E
	1609	1853	1.4F		1646	1943	1.5F
	2146				2232		
				31		0141	2.0E
				Su	0516	0745	1.1F
					1019	1341	2.2E
					1722	2013	1.4F
					2310		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0212	1.9E	16		0202	2.0E
M	0551	0811	0.9F	Tu	0536	0752	1.1F
	1047	1415	2.1E		1028	1405	2.5E
	1759	2042	1.3F		1745	2034	1.7F
	2346				2351		
2		0247	1.7E	17		0249	1.9E
Tu	0627	0839	0.8F	W	0623	0835	1.0F
	1113	1450	2.0E		1107	1452	2.4E
	1839	2115	1.1F		1836	2121	1.5F
3	0024	0324	1.5E	18	0042	0338	1.7E
W	0708	0912	0.7F	Th	0716	0925	0.8F
	1139	1527	1.8E		1152	1543	2.2E
	1924	2156	0.9F		1934	2216	1.3F
4	0105	0407	1.3E	19	0138	0435	1.5E
Th	0757	0951	0.5F	F	0820	1022	0.6F
	1206	1612	1.6E		1246	1641	1.9E
	2017	2241	0.7F		2041	2327	1.1F
5	0153	0457	1.1E	20	0240	0539	1.3E
F	0900	1035	0.3F	Sa	0936	1133	0.5F
	1237	1707	1.5E		1400	1752	1.7E
	2122	2342	0.6F		2158		
6	0252	0559	1.0E	21		0054	0.9F
Sa		1142	*	Su	0346	0657	1.3E
		1811	1.3E		1057	1320	0.5F
	2238				1531	1913	1.6E
					2319		
7		0106	0.5F	22		0224	0.9F
Su	0402	0711	1.0E	M	0450	0816	1.4E
		1311	*		1207	1451	0.7F
		1924	1.3E		1658	2040	1.6E
	2352						
8		0248	0.5F	23	0033	0329	0.9F
M	0509	0829	1.1E	Tu	0549	0926	1.5E
	1241	1500	0.3F		1303	1557	0.9F
	1654	2041	1.4E		1813	2149	1.7E
9	0052	0348	0.7F	24	0134	0424	1.0F
Tu	0606	0930	1.3E	W	0639	1015	1.7E
	1320	1559	0.6F		1349	1650	1.2F
	1808	2142	1.6E		1915	2247	1.8E
10	0140	0431	0.8F	25	0224	0509	1.0F
W	0653	1011	1.5E	Th	0723	1100	1.9E
	1354	1640	0.8F		1430	1735	1.3F
	1907	2231	1.7E		2007	2332	1.8E
11	0222	0506	0.9F	26	0307	0548	1.0F
Th	0733	1052	1.8E	F	0802	1135	2.0E
	1428	1716	1.1F		1509	1812	1.4F
	1958	2316	1.9E		2053		
12	0300	0535	1.0F	27		0011	1.8E
F	0809	1127	2.0E	Sa	0345	0622	1.0F
	1502	1754	1.4F		0837	1206	2.1E
	2046	2357	2.1E		1545	1849	1.5F
					2135		
13	0337	0607	1.1F	28		0046	1.8E
Sa	0843	1204	2.2E	Su	0421	0649	0.9F
	1538	1830	1.6F		0910	1240	2.1E
	2131				1621	1921	1.4F
					2213		
14		0039	2.1E	29		0118	1.7E
Su	0415	0640	1.2F	M	0455	0717	0.8F
	0917	1243	2.4E		0941	1313	2.1E
	1617	1908	1.7F		1657	1951	1.4F
	2217				2250		
15		0119	2.1E	30		0150	1.7E
M	0454	0713	1.1F	Tu	0530	0742	0.8F
	0951	1322	2.5E		1011	1346	2.1E
	1659	1949	1.8F		1733	2020	1.3F
	2303				2326		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

KEY WEST, FLORIDA, 1991

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0224	1.6E
W	0607	0811	0.7F
	1039	1423	2.0E
	1813	2052	1.1F
2	0003	0302	1.5E
Th	0647	0846	0.6F
	1109	1503	1.8E
	1856	2127	1.0F
3	0042	0344	1.3E
F	0735	0927	0.5F
	1142	1550	1.7E
	1945	2212	0.8F
4	0125	0431	1.2E
Sa	0830	1012	0.4F
	1224	1639	1.5E
	2042	2304	0.7F
5	0215	0523	1.2E
Su	0934	1113	0.3F
	1323	1736	1.4E
	2148		
6		0009	0.6F
M	0310	0624	1.2E
	1039	1227	0.3F
	1450	1843	1.3E
	2256		
7		0118	0.5F
Tu	0408	0727	1.2E
	1136	1346	0.4F
	1619	1953	1.4E
	2359		
8		0227	0.6F
W	0503	0825	1.4E
	1224	1500	0.7F
	1735	2059	1.5E
9	0054	0320	0.7F
Th	0552	0919	1.6E
	1307	1555	0.9F
	1839	2155	1.6E
10	0143	0408	0.8F
F	0637	1005	1.9E
	1348	1644	1.2F
	1935	2244	1.8E
11	0227	0450	0.9F
Sa	0719	1050	2.1E
	1430	1725	1.5F
	2027	2332	1.9E
12	0310	0528	1.0F
Su	0801	1134	2.3E
	1513	1809	1.7F
	2117		
13		0017	2.0E
M	0353	0609	1.0F
	0843	1218	2.5E
	1557	1855	1.8F
	2206		
14		0103	2.0E
Tu	0437	0655	1.0F
	0926	1303	2.6E
	1643	1940	1.8F
	2254		
15		0151	1.9E
W	0524	0740	1.0F
	1011	1349	2.5E
	1733	2027	1.8F
	2343		
16		0238	1.9E
Th	0614	0827	0.9F
	1059	1442	2.4E
	1826	2118	1.6F
17	0032	0331	1.7E
F	0709	0921	0.8F
	1153	1535	2.2E
	1923	2212	1.4F
18	0124	0425	1.6E
Sa	0810	1025	0.7F
	1255	1634	2.0E
	2027	2317	1.1F
19	0218	0526	1.5E
Su	0917	1136	0.7F
	1407	1740	1.7E
	2137		
20		0030	0.9F
M	0313	0631	1.5E
	1027	1307	0.7F
	1526	1854	1.5E
	2251		
21		0144	0.8F
Tu	0408	0738	1.5E
	1132	1427	0.8F
	1643	2013	1.5E
22	0004	0254	0.7F
W	0502	0841	1.6E
	1230	1530	1.0F
	1753	2123	1.5E
23	0108	0346	0.7F
Th	0552	0936	1.7E
	1320	1627	1.1F
	1855	2224	1.5E
24	0202	0437	0.7F
F	0637	1021	1.8E
	1405	1712	1.2F
	1948	2309	1.5E
25	0248	0516	0.7F
Sa	0720	1102	1.9E
	1446	1754	1.3F
	2034	2350	1.5E
26	0327	0554	0.7F
Su	0759	1138	2.0E
	1524	1833	1.3F
	2116		
27		0027	1.5E
M	0404	0630	0.7F
	0835	1213	2.0E
	1601	1906	1.3F
	2155		
28		0059	1.5E
Tu	0439	0653	0.7F
	0910	1247	2.0E
	1637	1935	1.3F
	2232		
29		0132	1.5E
W	0514	0721	0.6F
	0944	1324	2.0E
	1714	2004	1.2F
	2308		
30		0205	1.5E
Th	0550	0752	0.6F
	1017	1401	1.9E
	1753	2036	1.1F
	2344		
31		0243	1.5E
F	0628	0829	0.6F
	1053	1442	1.9E
	1833	2111	1.1F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0020	0324	1.4E
Sa	0710	0908	0.6F
	1132	1525	1.8E
	1917	2148	0.9F
2	0058	0407	1.4E
Su	0757	0953	0.5F
	1218	1612	1.7E
	2006	2233	0.8F
3	0137	0454	1.4E
M	0847	1045	0.5F
	1315	1704	1.5E
	2101	2320	0.7F
4	0219	0539	1.4E
Tu	0941	1144	0.5F
	1425	1805	1.4E
	2201		
5		0012	0.6F
W	0304	0638	1.5E
	1037	1253	0.6F
	1544	1908	1.4E
	2305		
6		0115	0.6F
Th	0354	0730	1.6E
	1132	1403	0.8F
	1701	2011	1.4E
7	0007	0215	0.6F
F	0447	0829	1.8E
	1224	1512	1.0F
	1811	2116	1.5E
8	0104	0314	0.6F
Sa	0540	0926	2.0E
	1315	1611	1.3F
	1914	2217	1.6E
9	0158	0408	0.7F
Su	0634	1017	2.2E
	1405	1706	1.5F
	2011	2311	1.7E
10	0247	0502	0.8F
M	0727	1109	2.4E
	1454	1757	1.7F
	2104		
11		0002	1.8E
Tu	0336	0553	0.9F
	0819	1200	2.5E
	1543	1846	1.8F
	2154		
12		0053	1.9E
W	0423	0642	1.0F
	0911	1249	2.6E
	1633	1935	1.8F
	2242		
13		0140	1.9E
Th	0512	0733	1.0F
	1004	1340	2.5E
	1723	2021	1.8F
	2329		
14		0230	1.9E
F	0601	0824	1.0F
	1059	1431	2.4E
	1815	2111	1.6F
15	0015	0318	1.9E
Sa	0653	0918	1.0F
	1155	1525	2.2E
	1910	2200	1.4F
16	0100	0406	1.8E
Su	0748	1016	0.9F
	1255	1620	2.0E
	2007	2255	1.2F
17	0146	0457	1.8E
M	0847	1120	0.9F
	1358	1717	1.7E
	2109	2349	0.9F
18	0232	0552	1.7E
Tu	0949	1235	0.8F
	1506	1825	1.5E
	2216		
19		0052	0.7F
W	0320	0653	1.6E
	1052	1348	0.8F
	1617	1937	1.3E
	2326		
20		0200	0.6F
Th	0409	0752	1.6E
	1154	1501	0.9F
	1725	2048	1.2E
21	0036	0307	0.5F
F	0500	0851	1.6E
	1251	1559	1.0F
	1829	2155	1.2E
22	0139	0404	0.5F
Sa	0550	0945	1.7E
	1341	1652	1.1F
	1925	2247	1.3E
23	0230	0453	0.5F
Su	0639	1031	1.8E
	1426	1735	1.1F
	2014	2334	1.3E
24	0313	0536	0.5F
M	0726	1115	1.8E
	1507	1816	1.2F
	2057		
25		0013	1.4E
Tu	0349	0610	0.5F
	0809	1154	1.9E
	1545	1855	1.2F
	2137		
26		0046	1.4E
W	0424	0639	0.6F
	0850	1230	1.9E
	1622	1922	1.2F
	2214		
27		0115	1.5E
Th	0456	0709	0.6F
	0928	1307	2.0E
	1658	1951	1.2F
	2248		
28		0148	1.5E
F	0529	0740	0.7F
	1006	1344	2.0E
	1734	2017	1.2F
	2321		
29		0222	1.6E
Sa	0603	0813	0.7F
	1044	1423	2.0E
	1811	2046	1.1F
	2353		
30		0257	1.6E
Su	0639	0850	0.8F
	1125	1505	1.9E
	1850	2121	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0024	0336	1.6E	16	0107	0425	1.9E
M	0718	0931	0.8F	Tu	0811	1051	1.1F
	1209	1548	1.8E		1337	1648	1.7E
	1933	2157	1.0F		2034	2304	0.9F
2	0055	0417	1.6E	17	0146	0511	1.8E
Tu	0801	1010	0.8F	W	0908	1150	0.9F
	1300	1635	1.6E		1437	1742	1.4E
	2020	2238	0.8F		2135	2355	0.6F
3	0128	0501	1.7E	18	0226	0603	1.7E
W	0851	1109	0.8F	Th	1010	1301	0.8F
	1401	1728	1.5E		1541	1848	1.2E
	2114	2327	0.7F		2245		
4	0204	0552	1.7E	19		0054	0.4F
Th	0947	1211	0.8F	F	0311	0700	1.6E
	1512	1827	1.4E		1116	1423	0.8F
	2216				1650	2003	1.0E
5		0020	0.6F	20	0003	0216	0.3F
F	0249	0647	1.7E	Sa	0404	0803	1.5E
	1048	1316	0.9F		1222	1532	0.8F
	1631	1933	1.3E		1757	2123	1.0E
	2324						
6		0123	0.5F	21	0120	0336	0.3F
Sa	0345	0748	1.8E	Su	0505	0910	1.5E
	1150	1435	1.0F		1320	1631	0.9F
	1747	2044	1.3E		1858	2224	1.1E
7	0033	0231	0.5F	22	0217	0431	0.3F
Su	0451	0851	2.0E	M	0606	1007	1.6E
	1251	1552	1.2F		1410	1719	1.0F
	1855	2155	1.4E		1950	2315	1.2E
8	0136	0342	0.6F	23	0258	0518	0.4F
M	0601	0955	2.1E	Tu	0702	1100	1.7E
	1348	1653	1.4F		1452	1800	1.1F
	1956	2300	1.5E		2035	2354	1.3E
9	0231	0447	0.7F	24	0332	0557	0.5F
Tu	0707	1053	2.3E	W	0752	1138	1.9E
	1442	1748	1.6F		1530	1835	1.2F
	2050	2351	1.7E		2114		
10	0321	0545	0.9F	25		0027	1.4E
W	0809	1151	2.5E	Th	0402	0630	0.6F
	1533	1839	1.7F		0837	1216	1.9E
	2139				1605	1908	1.2F
					2149		
11		0040	1.9E	26		0056	1.5E
Th	0409	0638	1.1F	F	0431	0655	0.8F
	0907	1242	2.5E		0918	1249	2.0E
	1623	1926	1.8F		1639	1931	1.2F
	2224				2221		
12		0129	2.0E	27		0125	1.6E
F	0455	0729	1.2F	Sa	0501	0723	0.9F
	1002	1331	2.5E		0957	1326	2.1E
	1712	2010	1.7F		1713	1957	1.2F
	2307				2251		
13		0212	2.1E	28		0153	1.7E
Sa	0542	0818	1.3F	Su	0531	0752	1.0F
	1055	1420	2.4E		1035	1403	2.1E
	1801	2055	1.6F		1747	2020	1.2F
	2348				2319		
14		0255	2.1E	29		0227	1.8E
Su	0629	0905	1.3F	M	0603	0827	1.0F
	1149	1508	2.2E		1114	1442	2.0E
	1850	2137	1.4F		1823	2049	1.1F
					2345		
15	0028	0339	2.0E	30		0302	1.9E
M	0718	0956	1.2F	Tu	0639	0906	1.1F
	1242	1557	2.0E		1156	1521	1.9E
	1941	2219	1.1F		1901	2124	1.0F
				31	0012	0343	1.9E
				W	0720	0947	1.1F
					1244	1606	1.7E
					1944	2203	0.9F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0040	0426	1.9E	16	0130	0515	1.7E
Th	0809	1035	1.0F	F	0926	1205	0.7F
	1340	1655	1.5E		1500	1758	1.1E
	2035	2248	0.7F		2202	2349	0.3F
2	0114	0515	1.9E	17	0208	0612	1.5E
F	0907	1136	0.9F	Sa	1036	1336	0.6F
	1447	1755	1.3E		1608	1912	0.9E
	2138	2339	0.6F				
3	0157	0612	1.8E	18		0106	*
Sa	1014	1247	0.9F	Su		0717	1.4E
	1607	1904	1.2E		1151	1504	0.6F
	2254				1720	2048	0.9E
4		0045	0.4F	19		0303	*
Su	0257	0718	1.8E	M		0835	1.4E
	1126	1415	0.9F		1258	1605	0.7F
	1727	2021	1.1E		1825	2159	1.0E
5	0015	0206	0.4F	20	0159	0410	0.3F
M	0420	0829	1.9E	Tu	0541	0949	1.5E
	1235	1545	1.1F		1350	1658	0.9F
	1839	2142	1.3E		1920	2249	1.2E
6	0123	0333	0.5F	21	0234	0459	0.5F
Tu	0547	0942	2.0E	W	0645	1037	1.6E
	1338	1649	1.3F		1432	1737	1.0F
	1940	2247	1.5E		2005	2328	1.3E
7	0219	0446	0.8F	22	0303	0537	0.6F
W	0702	1047	2.2E	Th	0738	1119	1.8E
	1434	1740	1.5F		1509	1810	1.1F
	2032	2340	1.7E		2043	2359	1.5E
8	0307	0545	1.0F	23	0330	0608	0.8F
Th	0806	1141	2.4E	F	0823	1156	2.0E
	1525	1829	1.7F		1543	1839	1.2F
	2117				2116		
9		0026	2.0E	24		0026	1.7E
F	0351	0633	1.3F	Sa	0358	0635	1.0F
	0904	1233	2.5E		0905	1230	2.1E
	1612	1910	1.7F		1615	1902	1.2F
	2159				2146		
10		0107	2.1E	25		0052	1.8E
Sa	0434	0720	1.4F	Su	0426	0700	1.1F
	0956	1320	2.5E		0944	1305	2.1E
	1657	1949	1.6F		1648	1924	1.2F
	2237				2214		
11		0146	2.2E	26		0121	1.9E
Su	0516	0802	1.5F	M	0456	0730	1.2F
	1046	1404	2.4E		1022	1342	2.1E
	1741	2028	1.5F		1721	1951	1.2F
	2314				2240		
12		0227	2.2E	27		0156	2.0E
M	0600	0846	1.5F	Tu	0528	0803	1.3F
	1134	1449	2.2E		1101	1417	2.1E
	1825	2106	1.3F		1755	2020	1.1F
	2349				2305		
13		0305	2.2E	28		0231	2.1E
Tu	0644	0927	1.3F	W	0605	0842	1.3F
	1221	1531	1.9E		1143	1457	1.9E
	1910	2140	1.1F		1833	2053	1.0F
					2330		
14	0023	0346	2.0E	29		0311	2.1E
W	0732	1012	1.2F	Th	0647	0923	1.3F
	1310	1612	1.6E		1230	1540	1.7E
	1958	2212	0.8F		1915	2132	0.9F
15	0056	0429	1.9E	30	0000	0353	2.0E
Th	0825	1101	0.9F	F	0737	1012	1.2F
	1401	1701	1.3E		1324	1629	1.5E
	2053	2254	0.5F		2008	2214	0.7F
				31	0035	0442	1.9E
				Sa	0837	1113	1.0F
					1430	1730	1.3E
					2115	2313	0.5F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0121	0544	1.8E
	0950	1227	0.9F
	1549	1844	1.1E
	2241		
2 M		0024	0.3F
	0231	0657	1.7E
	1110	1409	0.9F
	1710	2012	1.1E
3 Tu	0007	0204	0.4F
	0416	0818	1.8E
	1226	1535	1.0F
	1820	2133	1.3E
4 W	0113	0342	0.6F
	0549	0936	1.9E
	1330	1637	1.2F
	1917	2233	1.6E
5 Th	0204	0446	0.9F
	0702	1040	2.1E
	1425	1729	1.4F
	2006	2322	1.8E
6 F	0248	0537	1.2F
	0804	1135	2.3E
	1513	1810	1.5F
	2048		
7 Sa		0003	2.1E
	0330	0622	1.4F
	0858	1223	2.4E
	1557	1850	1.5F
	2127		
8 Su		0042	2.2E
	0410	0705	1.6F
	0946	1304	2.4E
	1639	1925	1.5F
	2203		
9 M		0117	2.3E
	0449	0744	1.6F
	1032	1343	2.2E
	1719	1957	1.3F
	2236		
10 Tu		0155	2.3E
	0529	0819	1.6F
	1115	1423	2.1E
	1759	2027	1.1F
	2308		
11 W		0230	2.2E
	0611	0858	1.4F
	1157	1458	1.8E
	1839	2059	0.9F
	2338		
12 Th		0305	2.1E
	0655	0934	1.2F
	1240	1540	1.6E
	1924	2134	0.7F
13 F	0007	0347	1.9E
	0744	1019	0.9F
	1325	1622	1.3E
	2016	2209	0.5F
14 Sa	0036	0434	1.7E
	0842	1110	0.7F
	1419	1715	1.1E
	2124	2258	0.3F
15 Su	0107	0527	1.4E
	0953	1231	0.5F
	1523	1824	0.9E
16 M		0011	*
	0634	1.3E	
	1112	1421	0.5F
	1636	1957	0.9E
17 Tu		0230	*
	0759	1.3E	
	1225	1530	0.6F
	1743	2117	1.0E
18 W	0124	0342	0.3F
	0516	0916	1.4E
	1320	1621	0.8F
	1839	2210	1.2E
19 Th	0156	0431	0.5F
	0624	1011	1.6E
	1403	1702	0.9F
	1924	2247	1.4E
20 F	0224	0506	0.8F
	0718	1053	1.8E
	1441	1734	1.0F
	2002	2316	1.6E
21 Sa	0253	0541	1.0F
	0805	1132	1.9E
	1515	1803	1.1F
	2035	2348	1.8E
22 Su	0321	0604	1.2F
	0847	1207	2.1E
	1548	1826	1.1F
	2105		
23 M		0019	2.0E
	0351	0636	1.4F
	0928	1239	2.1E
	1621	1849	1.2F
	2133		
24 Tu		0048	2.2E
	0423	0707	1.5F
	1008	1316	2.1E
	1655	1919	1.1F
	2200		
25 W		0125	2.3E
	0458	0740	1.6F
	1049	1354	2.0E
	1731	1948	1.1F
	2227		
26 Th		0202	2.3E
	0537	0821	1.6F
	1132	1436	1.9E
	1811	2027	1.0F
	2257		
27 F		0242	2.3E
	0622	0904	1.5F
	1220	1521	1.7E
	1857	2108	0.8F
	2331		
28 Sa		0331	2.2E
	0715	0956	1.3F
	1314	1612	1.5E
	1953	2157	0.6F
29 Su	0012	0422	2.0E
	0818	1057	1.1F
	1418	1716	1.3E
	2106	2256	0.5F
30 M	0108	0527	1.8E
	0934	1216	0.9F
	1532	1831	1.2E
	2234		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu		0022	0.3F
	0238	0645	1.7E
	1058	1403	0.9F
	1647	2000	1.2E
	2355		
2 W		0218	0.4F
	0424	0815	1.7E
	1215	1520	1.0F
	1752	2117	1.4E
3 Th	0056	0342	0.7F
	0550	0932	1.8E
	1319	1618	1.1F
	1847	2214	1.7E
4 F	0144	0437	1.1F
	0659	1034	2.0E
	1412	1709	1.2F
	1933	2259	1.9E
5 Sa	0227	0526	1.4F
	0757	1125	2.1E
	1459	1748	1.3F
	2014	2338	2.1E
6 Su	0307	0609	1.6F
	0847	1207	2.2E
	1540	1823	1.3F
	2051		
7 M		0014	2.3E
	0345	0647	1.6F
	0933	1245	2.1E
	1619	1854	1.2F
	2126		
8 Tu		0049	2.3E
	0424	0722	1.6F
	1015	1322	2.0E
	1657	1928	1.1F
	2158		
9 W		0121	2.3E
	0502	0756	1.5F
	1055	1357	1.9E
	1734	1955	1.0F
	2228		
10 Th		0158	2.2E
	0541	0831	1.4F
	1133	1433	1.7E
	1812	2026	0.8F
	2257		
11 F		0233	2.1E
	0623	0905	1.2F
	1213	1511	1.5E
	1855	2059	0.6F
	2325		
12 Sa		0312	1.9E
	0709	0943	1.0F
	1254	1554	1.3E
	1945	2134	0.5F
	2354		
13 Su		0357	1.7E
	0803	1028	0.8F
	1342	1641	1.1E
	2050	2225	0.3F
14 M	0029	0448	1.4E
	0908	1131	0.6F
	1439	1742	1.0E
		2333	*
15 Tu		0556	1.3E
	1023	1308	0.5F
	1545	1858	1.0E
16 W		0119	*
		0709	1.2E
	1136	1435	0.5F
	1650	2014	1.1E
17 Th	0028	0257	0.3F
	0443	0829	1.3E
	1237	1533	0.6F
	1746	2113	1.3E
18 F	0107	0348	0.6F
	0554	0933	1.5E
	1325	1618	0.8F
	1833	2155	1.5E
19 Sa	0140	0431	0.8F
	0652	1018	1.7E
	1406	1647	0.9F
	1912	2234	1.7E
20 Su	0212	0503	1.1F
	0742	1059	1.8E
	1444	1719	0.9F
	1948	2309	1.9E
21 M	0245	0538	1.3F
	0827	1140	1.9E
	1520	1747	1.0F
	2021	2345	2.2E
22 Tu	0319	0610	1.5F
	0911	1216	2.0E
	1555	1817	1.1F
	2052		
23 W		0020	2.3E
	0356	0647	1.7F
	0954	1257	2.0E
	1633	1850	1.1F
	2125		
24 Th		0059	2.4E
	0435	0724	1.7F
	1039	1338	2.0E
	1712	1927	1.0F
	2159		
25 F		0140	2.5E
	0519	0807	1.7F
	1124	1422	1.9E
	1756	2008	0.9F
	2237		
26 Sa		0223	2.4E
	0607	0852	1.6F
	1213	1509	1.7E
	1846	2053	0.8F
	2319		
27 Su		0312	2.2E
	0702	0947	1.4F
	1306	1603	1.5E
	1946	2147	0.7F
28 M	0012	0409	2.0E
	0805	1048	1.1F
	1405	1705	1.4E
	2057	2254	0.5F
29 Tu	0121	0517	1.8E
	0919	1205	0.9F
	1509	1815	1.3E
	2216		
30 W		0027	0.5F
	0251	0634	1.6E
	1039	1338	0.8F
	1614	1937	1.4E
	2330		
31 Th		0212	0.6F
	0423	0803	1.6E
	1156	1454	0.9F
	1715	2046	1.6E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 020° True E-Ebb, Dir. 195° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0030	0323	0.9F	16	0010	0251	0.6F
F	0543	0920	1.7E	Sa	0516	0838	1.4E
	1302	1551	0.9F		1238	1507	0.6F
	1808	2142	1.8E		1730	2101	1.5E
2	0120	0421	1.2F	17	0053	0341	0.9F
Sa	0649	1021	1.8E	Su	0621	0936	1.5E
	1356	1640	1.0F		1327	1554	0.7F
	1855	2231	1.9E		1815	2145	1.8E
3	0204	0510	1.4F	18	0133	0427	1.1F
Su	0745	1108	1.8E	M	0717	1027	1.6E
	1443	1725	1.0F		1411	1631	0.8F
	1937	2312	2.1E		1857	2231	2.0E
4	0245	0551	1.5F	19	0213	0509	1.4F
M	0834	1148	1.9E	Tu	0808	1112	1.8E
	1524	1800	1.0F		1452	1709	0.9F
	2015	2347	2.2E		1938	2312	2.2E
5	0324	0632	1.6F	20	0253	0551	1.6F
Tu	0918	1229	1.8E	W	0856	1157	1.9E
	1602	1833	0.9F		1533	1748	0.9F
	2050				2018	2355	2.4E
6		0022	2.2E	21	0335	0632	1.7F
W	0402	0707	1.5F	Th	0943	1241	1.9E
	0958	1305	1.8E		1614	1829	1.0F
	1638	1901	0.9F		2:00		
	2124						
7		0055	2.2E	22		0038	2.5E
Th	0440	0738	1.5F	F	0420	0715	1.8F
	1036	1338	1.7E		1029	1326	1.9E
	1714	1929	0.8F		1658	1913	1.0F
	2155				2144		
8		0131	2.1E	23		0123	2.5E
F	0518	0808	1.3F	Sa	0507	0801	1.8F
	1113	1410	1.6E		1116	1413	1.9E
	1752	1958	0.7F		1745	2000	1.0F
	2227				2231		
9		0208	2.0E	24		0213	2.5E
Sa	0558	0843	1.2F	Su	0557	0850	1.6F
	1150	1447	1.5E		1203	1458	1.8E
	1833	2033	0.6F		1836	2049	0.9F
	2258				2323		
10		0247	1.9E	25		0304	2.3E
Su	0641	0916	1.0F	M	0651	0941	1.4F
	1228	1527	1.4E		1252	1553	1.7E
	1919	2112	0.5F		1934	2147	0.8F
	2333						
11		0331	1.7E	26	0022	0403	2.1E
M	0729	0957	0.9F	Tu	0752	1036	1.2F
	1310	1614	1.3E		1344	1649	1.6E
	2014	2203	0.4F		2038	2251	0.7F
12	0014	0420	1.5E	27	0131	0504	1.8E
Tu	0824	1047	0.7F	W	0859	1142	1.0F
	1357	1707	1.2E		1437	1749	1.6E
	2117	2254	0.3F		2146		
13	0111	0517	1.4E	28		0018	0.7F
W	0928	1146	0.6F	Th	0249	0614	1.6E
	1449	1805	1.2E		1012	1258	0.8F
	2223				1533	1857	1.6E
					2256		
14		0009	0.3F	29		0147	0.8F
Th	0233	0622	1.3E	F	0409	0734	1.5E
	1036	1258	0.5F		1127	1413	0.7F
	1545	1904	1.2E		1628	2006	1.6E
	2321				2358		
15		0133	0.4F	30		0301	0.9F
F	0401	0732	1.3E	Sa	0525	0853	1.4E
	1142	1409	0.5F		1238	1518	0.7F
	1640	2007	1.3E		1722	2107	1.7E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0054	0402	1.1F	16	0006	0247	0.8F
Su	0632	0959	1.5E	M	0547	0853	1.3E
	1338	1614	0.7F		1246	1448	0.5F
	1812	2159	1.9E		1711	2101	1.8E
2	0143	0453	1.3F	17	0057	0355	1.1F
M	0730	1054	1.5E	Tu	0652	0954	1.4E
	1429	1659	0.7F		1340	1545	0.6F
	1859	2244	2.0E		1807	2154	2.0E
3	0228	0538	1.4F	18	0146	0447	1.3F
Tu	0819	1137	1.5E	W	0750	1050	1.5E
	1512	1740	0.7F		1430	1639	0.7F
	1941	2322	2.0E		1902	2247	2.2E
4	0309	0620	1.4F	19	0234	0538	1.6F
W	0903	1216	1.6E	Th	0843	1141	1.7E
	1550	1817	0.7F		1516	1732	0.8F
	2021				1955	2337	2.4E
5		0001	2.1E	20	0322	0623	1.7F
Th	0347	0655	1.4F	F	0931	1230	1.8E
	0943	1249	1.6E		1600	1819	1.0F
	1625	1845	0.7F		2048		
	2058						
6		0036	2.1E	21		0028	2.6E
F	0425	0730	1.4F	Sa	0410	0710	1.8F
	1020	1322	1.6E		1018	1315	1.9E
	1700	1913	0.7F		1646	1908	1.1F
	2134				2140		
7		0113	2.1E	22		0117	2.6E
Sa	0502	0757	1.3F	Su	0458	0755	1.8F
	1055	1353	1.5E		1103	1401	2.0E
	1735	1945	0.7F		1732	1957	1.1F
	2210				2233		
8		0148	2.0E	23		0206	2.5E
Su	0539	0826	1.2F	M	0548	0842	1.7F
	1130	1427	1.5E		1147	1449	2.0E
	1812	2018	0.7F		1821	2047	1.1F
	2245				2328		
9		0227	1.9E	24		0255	2.4E
M	0618	0855	1.1F	Tu	0639	0927	1.5F
	1204	1505	1.5E		1230	1537	2.0E
	1852	2055	0.6F		1913	2140	1.1F
	2323						
10		0308	1.8E	25	0025	0350	2.1E
Tu	0700	0931	1.0F	W	0733	1016	1.3F
	1239	1548	1.5E		1314	1626	1.9E
	1936	2138	0.6F		2009	2239	1.0F
11	0005	0353	1.7E	26	0126	0445	1.9E
W	0746	1012	0.9F	Th	0832	1107	1.0F
	1315	1629	1.4E		1359	1717	1.8E
	2024	2225	0.6F		2110	2349	0.9F
12	0056	0442	1.5E	27	0233	0546	1.6E
Th	0837	1057	0.7F	F	0937	1208	0.8F
	1353	1716	1.4E		1445	1815	1.7E
	2118	2321	0.5F		2215		
13	0159	0536	1.4E	28		0109	0.8F
F	0936	1146	0.6F	Sa	0345	0656	1.3E
	1435	1811	1.4E		1051	1320	0.5F
	2214				1535	1917	1.6E
					2323		
14		0024	0.6F	29		0228	0.9F
Sa	0315	0639	1.3E	Su	0458	0819	1.2E
	1040	1244	0.5F		1209	1434	0.4F
	1522	1906	1.5E		1629	2024	1.6E
	2311						
15		0133	0.7F	30	0027	0340	1.0F
Su	0434	0744	1.3E	M	0608	0934	1.2E
	1145	1345	0.5F		1322	1541	0.4F
	1615	2002	1.6E		1726	2128	1.7E
				31	0124	0437	1.1F
				Tu	0710	1037	1.2E
					1420	1640	0.4F
					1822	2221	1.8E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

TAMPA BAY ENTRANCE (Egmont Channel), FLORIDA, 1991

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0114	0538	4.0E
	1002	1309	2.3F
		1822	*
		2321	1.5F
2 W	0203	0620	3.7E
	1042	1346	2.1F
		1908	*
3 Th		0009	1.3F
	0250	0702	3.3E
	1119	1424	1.9F
	1818	1951	0.4E
	2136		
4 F		0105	1.1F
	0336	0741	2.8E
	1151	1458	1.7F
	1833	2035	0.6E
	2310		
5 Sa		0201	0.8F
	0421	0819	2.1E
	1217	1531	1.5F
	1853	2130	0.9E
6 Su	0103	0314	0.4F
	0509	0856	1.5E
	1234	1604	1.3F
	1917	2231	1.2E
7 M		0445	*
		0933	0.8E
	1239	1637	1.2F
	1946	2331	1.4E
8 Tu		0632	*
		1021	0.3E
	1221	1713	1.0F
	2020		
9 W		0040	1.7E
	0605	0821	0.4F
		1136	*
		1800	0.9F
	2100		
10 Th		0140	2.0E
	0647	0927	0.8F
		1327	0.4F
		1851	0.9F
	2145		
11 F		0232	2.3E
	0724	1020	1.1F
		1506	0.4F
		1945	0.9F
	2231		
12 Sa		0315	2.6E
	0758	1055	1.3F
		1555	0.4F
		2034	1.0F
	2317		
13 Su		0355	2.8E
	0830	1126	1.4F
		1630	0.3F
		2120	1.1F
14 M	0000	0430	2.9E
	0901	1201	1.6F
		1659	*
		2158	1.2F
15 Tu	0040	0501	3.0E
	0929	1228	1.6F
		1728	*
		2236	1.2F
16 W	0118	0533	3.1E
	0955	1253	1.7F
		1801	*
		2309	1.2F
17 Th	0155	0604	3.0E
	1019	1320	1.7F
	1700	1836	0.4E
	2016	2350	1.2F
18 F	0232	0637	2.9E
	1042	1347	1.6F
	1713	1913	0.6E
	2119		
19 Sa		0033	1.1F
	0311	0708	2.6E
	1105	1410	1.6F
	1730	1948	0.9E
	2228		
20 Su		0118	0.9F
	0355	0741	2.2E
	1126	1438	1.5F
	1751	2037	1.2E
	2348		
21 M		0222	0.7F
	0448	0822	1.6E
	1146	1507	1.4F
	1816	2126	1.5E
22 Tu	0126	0343	0.5F
	0602	0911	1.0E
	1201	1530	1.2F
	1847	2229	1.8E
23 W	0318	0542	0.5F
	0810	1009	0.3E
	1201	1613	1.1F
	1926	2337	2.1E
24 Th	0449	0737	0.8F
		1130	*
		1705	1.0F
	2017		
25 F		0054	2.5E
	0556	0901	1.2F
		1333	0.5F
		1818	1.0F
	2117		
26 Sa		0205	2.9E
	0651	1002	1.6F
		1514	0.5F
		1940	1.1F
	2222		
27 Su		0306	3.3E
	0739	1045	1.9F
		1614	0.3F
		2050	1.2F
	2325		
28 M		0357	3.6E
	0824	1128	2.1F
		1651	*
		2145	1.4F
29 Tu	0023	0445	3.7E
	0904	1203	2.2F
		1728	*
		2240	1.5F
30 W	0117	0528	3.5E
	0940	1238	2.1F
	1623	1803	0.5E
	1957	2331	1.5F
31 Th	0208	0608	3.2E
	1012	1308	2.0F
	1632	1843	0.8E
	2103		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0019	1.4F
	0255	0643	2.8E
	1038	1335	1.8F
	1647	1918	1.1E
	2208		
2 Sa		0107	1.2F
	0341	0712	2.2E
	1059	1403	1.6F
	1704	1955	1.4E
	516		
3 Su		0200	1.0F
	0427	0744	1.6E
	1112	1426	1.4F
	1725	2038	1.5E
4 M	0032	0257	0.7F
	0518	0816	1.1E
	1116	1448	1.2F
	1750	2120	1.6E
5 Tu	0204	0412	0.4F
	0622	0851	0.5E
	1108	1507	1.1F
	1820	2215	1.7E
6 W	0352	0555	0.3F
		0926	*
		1526	0.9F
	1858	2324	1.7E
7 Th	0518	0751	0.4F
		1015	0.3F
		1602	0.8F
	1948		
8 F		0044	1.8E
	0615	0914	0.7F
		1245	0.6F
		1738	0.6F
	2051		
9 Sa		0156	2.1E
	0658	0957	1.0F
		1526	0.4F
		1923	0.7F
	2157		
10 Su		0253	2.3E
	0734	1032	1.2F
		1555	0.3F
		2023	0.8F
	2257		
11 M		0335	2.5E
	0805	1100	1.4F
		1616	*
		2117	1.0F
	2349		
12 Tu		0411	2.7E
	0833	1127	1.5F
		1640	*
		2200	1.2F
13 W	0034	0441	2.8E
	0858	1151	1.6F
	1522	1709	0.5E
	1905	2241	1.3F
14 Th	0117	0515	2.8E
	0920	1215	1.6F
	1528	1736	0.8E
	1958	2318	1.4F
15 F	0158	0542	2.7E
	0940	1238	1.6F
	1541	1805	1.1E
	2050	2359	1.4F
16 Sa	0241	0618	2.5E
	1000	1259	1.6F
	1556	1840	1.5E
	2143		
17 Su		0043	1.4F
	0328	0646	2.1E
	1018	1318	1.5F
	1615	1921	1.8E
	2241		
18 M		0132	1.2F
	0420	0721	1.6E
	1034	1341	1.4F
	1637	1958	2.0E
	2347		
19 Tu		0233	1.0F
	0524	0804	1.0E
	1045	1402	1.3F
	1704	2047	2.2E
20 W	0108	0352	0.8F
	0654	0849	0.4E
	1043	1425	1.2F
	1739	2149	2.3E
21 Th	0246	0537	0.8F
		0950	*
		1500	1.0F
	1825	2304	2.4E
22 F	0422	0733	1.0F
		1132	0.5F
		1550	0.8F
	1929		
23 Sa		0029	2.5E
	0536	0856	1.3F
		1421	0.5F
		1759	0.7F
	2050		
24 Su		0149	2.7E
	0633	0945	1.6F
		1528	0.3F
		1948	0.9F
	2212		
25 M		0254	3.0E
	0720	1027	1.8F
		1605	*
		2057	1.1F
	2326		
26 Tu		0350	3.1E
	0801	1100	1.9F
		1450	0.5E
		1832	2153	1.4F
27 W	0029	0432	3.0E
	0835	1127	1.9F
	1452	1707	0.9E
	1935	2248	1.5F
28 Th	0124	0511	2.8E
	0904	1156	1.8F
	1501	1742	1.3E
	2030	2334	1.6F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0216	0543	2.4E	16	0208	0524	2.1E
F	0928	1219	1.7F	Sa	0850	1144	1.5F
	1515	1811	1.6E		1430	1740	2.0E
	2121				2102		
2		0020	1.5F	17		0005	1.7F
Sa	0304	0618	2.0E	Su	0300	0600	1.8E
	0946	1243	1.6F		0908	1205	1.5F
	1531	1841	1.9E		1449	1814	2.4E
	2212				2150		
3		0105	1.4F	18		0052	1.7F
Su	0352	0647	1.5E	M	0355	0635	1.4E
	0958	1302	1.4F		0924	1228	1.4F
	1549	1915	2.1E		1511	1851	2.6E
	2303				2244		
4		0148	1.2F	19		0144	1.6F
M	0440	0716	1.1E	Tu	0458	0710	0.9E
	1004	1321	1.3F		0934	1249	1.3F
	1611	1950	2.1E		1538	1933	2.8E
	2359				2345		
5		0242	1.0F	20		0246	1.4F
Tu	0534	0745	0.6E	W	0619	0753	0.4E
	1004	1338	1.1F		0934	1314	1.2F
	1635	2027	2.1E		1610	2021	2.8E
6	0105	0340	0.7F	21	0058	0401	1.2F
W		0814	*	Th		0842	*
		1351	1.0F			1335	1.1F
	1704	2114	2.0E		1649	2124	2.6E
7	0230	0509	0.5F	22	0224	0537	1.1F
Th		0855	*	F		0956	0.5F
		1359	0.8F			1400	0.9F
	1740	2215	1.6E		1740	2237	2.5E
8	0406	0704	0.6F	23	0351	0714	1.2F
F		0956	0.4F	Sa		1231	0.6F
		1406	0.7F			1402	0.6F
	1832	2336	1.8E		1853		
9	0520	0828	0.8F	24		0006	2.4E
Sa	1949			Su	0503	0822	1.4F
						1441	*
						1822	0.5F
					2032		
10		0104	1.8E	25		0133	2.4E
Su	0611	0915	1.0F	M	0600	0905	1.6F
		1515	0.3F			1518	*
		1900	0.5F			1958	0.7F
	2117				2209		
11		0214	2.0E	26		0236	2.4E
M	0649	0950	1.2F	Tu	0644	0942	1.6F
		1524	*		1322	1545	0.7E
		2014	0.7F		1815	2107	1.0F
	2233				2330		
12		0302	2.2E	27		0328	2.3E
Tu	0721	1013	1.3F	W	0720	1015	1.7F
	1358	1551	0.3E		1325	1614	1.2E
	1747	2112	0.9F		1911	2202	1.3F
	2334						
13		0341	2.3E	28	0038	0413	2.1E
W	0747	1040	1.4F	Th	0749	1040	1.6F
	1354	1612	0.7E		1335	1643	1.7E
	1844	2155	1.2F		1959	2252	1.5F
14	0028	0416	2.3E	29	0137	0449	1.8E
Th	0810	1103	1.5F	F	0811	1105	1.6F
	1401	1636	1.1E		1349	1712	2.0E
	1931	2239	1.4F		2043	2337	1.6F
15	0118	0448	2.3E	30	0230	0521	1.5E
F	0831	1123	1.6F	Sa	0828	1129	1.5F
	1414	1710	1.6E		1406	1738	2.3E
	2016	2320	1.6F		2124		
				31		0020	1.6F
				Su	0321	0553	1.1E
					0840	1147	1.4F
					1425	1807	2.5E
					2205		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0101	1.5F	16		0101	2.0F
M	0411	0622	0.8E	Tu	0438	0623	0.6E
	0847	1207	1.3F		0817	1141	1.4F
	1446	1836	2.6E		1423	1832	3.3E
	2247				2245		
2		0144	1.4F	17		0152	1.9F
Tu	0503	0656	0.5E	W		0706	*
	0851	1222	1.2F			1210	1.3F
	1509	1913	2.6E		1457	1918	3.3E
	2333				2344		
3		0231	1.2F	18		0254	1.7F
W		0726	*	Th		0753	*
		1237	1.1F			1237	1.2F
	1535	1948	2.4E		1535	2006	3.2E
4	0026	0321	1.0F	19	0049	0409	1.6F
Th		0800	*	F		0855	0.4F
		1252	0.9F			1312	1.0F
	1604	2029	2.2E		1619	2104	2.8E
5	0131	0434	0.8F	20	0201	0526	1.5F
F		0845	*	Sa		1031	0.5F
		1309	0.8F			1351	0.6F
	1639	2124	2.0E		1713	2216	2.5E
6	0247	0559	0.8F	21	0312	0635	1.4F
Sa		1000	0.4F	Su		1301	*
		1328	0.6F			1618	0.3F
	1725	2236	1.8E		1828	2334	2.1E
7	0401	0719	0.9F	22	0415	0729	1.5F
Su	1837	2353	1.7E	M	1204	1408	0.3E
					1621	1836	0.3F
					2018		
8	0457	0810	1.0F	23		0054	1.8E
M		1423	*	Tu	0506	0818	1.5F
		1832	0.3F		1150	1445	0.8E
	2023				1749	2009	0.6F
					2208		
9		0110	1.7E	24		0205	1.6E
Tu	0540	0845	1.2F	W	0546	0853	1.5F
	1226	1444	0.4E		1157	1516	1.4E
	1716	1958	0.5F		1843	2113	0.9F
	2200				2340		
10		0210	1.7E	25		0259	1.3E
W	0614	0914	1.3F	Th	0617	0919	1.4F
	1224	1506	0.9E		1211	1542	1.9E
	1811	2057	0.8F		1928	2208	1.2F
	2318						
11		0259	1.7E	26	0056	0343	1.1E
Th	0642	0939	1.4F	F	0640	0948	1.4F
	1233	1535	1.4E		1228	1611	2.3E
	1856	2148	1.2F		2008	2255	1.4F
12	0025	0341	1.7E	27	0201	0423	0.8E
F	0707	1004	1.4F	Sa	0656	1011	1.4F
	1248	1607	1.9E		1247	1643	2.6E
	1938	2236	1.5F		2045	2338	1.6F
13	0127	0424	1.5E	28	0300	0458	0.6E
Sa	0729	1029	1.4F	Su	0708	1036	1.3F
	1306	1639	2.4E		1309	1709	2.8E
	2020	2322	1.8F		2121		
14	0228	0500	1.2E	29		0017	1.6F
Su	0749	1052	1.4F	M	0355	0530	0.4E
	1328	1714	2.9E		0715	1051	1.2F
	2105				1332	1736	2.9E
					2157		
15		0007	1.9F	30		0056	1.6F
M	0330	0540	0.9E	Tu		0602	*
	0805	1118	1.4F			1115	1.2F
	1354	1749	3.2E		1357	1811	2.9E
	2153				2234		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

TAMPA BAY ENTRANCE (Egmont Channel), FLORIDA, 1991

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0138	1.5F	16		0200	2.1F
W		0637	*	Th		0705	*
		1135	1.1F			1151	1.3F
	1425	1840	2.8E		1436	1905	3.7E
	2315				2339		
2		0219	1.4F	17		0255	2.0F
Th		0712	*	F		0800	0.3F
		1156	1.0F			1227	1.1F
	1454	1921	2.7E		1521	1957	3.3E
3	0000	0314	1.2F	18	0035	0351	1.8F
F		0753	*	Sa		0908	0.3F
		1221	0.9F			1321	0.8F
	1525	2003	2.5E		1609	2051	2.9E
4	0050	0403	1.1F	19	0131	0452	1.7F
Sa		0842	0.3F	Su		1030	*
		1248	0.7F			1443	0.5F
	1559	2051	2.2E		1702	2150	2.3E
5	0143	0507	1.1F	20	0223	0543	1.5F
Su		0956	*	M	1006	1206	0.3E
		1329	0.5F			1642	*
	1638	2145	2.0E			2254	1.8E
6	0237	0603	1.1F	21	0310	0630	1.4F
M		1133	*	Tu	1009	1311	0.8E
		1513	*		1658	1836	0.3F
		2252	1.7E		2005		
7	0326	0651	1.1F	22		0009	1.2E
Tu	1045	1255	0.3E	W	0348	0713	1.4F
		1759	*		1023	1359	1.4E
		2357	1.5E		1804	2005	0.5F
					2212		
8	0408	0732	1.2F	23		0117	0.8E
W	1048	1339	0.8E	Th	0418	0748	1.3F
	1728	1933	0.4F		1043	1439	1.9E
	2125				1851	2114	0.8F
9		0105	1.3E	24	0007	0223	0.5E
Th	0445	0805	1.3F	F	0439	0818	1.3F
	1102	1421	1.4E		1106	1510	2.3E
	1813	2043	0.8F		1931	2208	1.1F
	2307						
10		0208	1.1E	25		0315	*
F	0517	0834	1.3F	Sa		0853	1.2F
	1121	1456	2.0E		1131	1544	2.6E
	1854	2142	1.2F		2007	2257	1.4F
11	0034	0303	0.9E	26		0401	*
Sa	0545	0904	1.3F	Su		0916	1.2F
	1144	1535	2.6E		1158	1613	2.9E
	1935	2231	1.6F		2042	2334	1.5F
12	0152	0357	0.7E	27		0440	*
Su	0610	0935	1.4F	M		0945	1.2F
	1210	1611	3.1E		1226	1647	3.0E
	2019	2324	1.9F		2116		
13	0307	0440	0.5E	28		0015	1.6F
M	0629	1004	1.4F	Tu		0513	*
	1241	1652	3.5E			1013	1.2F
	2105				1256	1716	3.1E
					2150		
14		0014	2.1F	29		0056	1.6F
Tu		0529	*	W		0545	*
		1033	1.4F			1042	1.1F
	1316	1735	3.7E		1327	1751	3.1E
	2154				2224		
15		0105	2.2F	30		0133	1.6F
W		0618	*	Th		0623	*
		1109	1.4F			1109	1.1F
	1354	1818	3.8E		1359	1824	3.0E
	2245				2300		
				31		0208	1.5F
				F		0657	*
						1138	1.0F
					1431	1859	2.9E
					2337		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0248	1.4F	16	0010	0324	1.9F
Sa		0739	*	Su		0851	*
		1207	0.9F			1344	0.8F
	1504	1940	2.7E		1610	2029	2.7E
2	0013	0331	1.4F	17	0050	0405	1.7F
Su		0830	*	M	0759	0957	0.4E
		1248	0.7F		1222	1501	0.5F
	1539	2023	2.4E		1703	2118	2.0E
3	0049	0412	1.3F	18	0124	0448	1.5F
M		0933	*	Tu	0816	1102	0.8E
		1347	0.4F		1456	1839	0.3F
	1616	2106	2.1E		1811	2207	1.3E
4	0125	0455	1.3F	19	0150	0522	1.4F
Tu	0848	1039	0.3E	W	0839	1208	1.3E
		1514	*		1650	1823	0.3F
		2200	1.7E		2000	2304	0.7E
5	0159	0533	1.2F	20	0205	0602	1.2F
W	0903	1142	0.7E	Th	0906	1306	1.7E
		1726	*		1757	1959	0.5F
		2257	1.2E				
6	0232	0612	1.2F	21		0016	*
Th	0923	1239	1.3E	F		0639	1.1F
	1713	1911	0.4F		0936	1355	2.1E
	2104				1844	2112	0.6F
7		0006	0.8E	22		0130	*
F	0304	0650	1.2F	Sa		0722	1.1F
	0948	1333	1.6E		1009	1440	2.4E
	1801	2028	0.8F		1924	2211	1.1F
	2316						
8		0123	0.5E	23		0252	0.3F
Sa	0334	0727	1.2F	Su		0756	1.1F
	1017	1417	2.4E		1045	1519	2.7E
	1845	2136	1.3F		2000	2252	1.3F
9		0237	*	24		0347	0.3F
Su		0809	1.3F	M		0837	1.1F
	1051	1505	3.0E		1122	1555	2.8E
	1930	2233	1.7F		2034	2334	1.4F
10		0339	*	25		0430	0.3F
M		0850	1.3F	Tu		0918	1.1F
	1129	1551	3.5E		1200	1630	3.0E
	2016	2322	2.0F		2107		
11		0432	*	26		0009	1.5F
Tu		0930	1.4F	W		0501	0.3F
	1211	1637	3.6E			0953	1.1F
	2103				1237	1704	3.0E
					2139		
12		0014	2.2F	27		0039	1.6F
W		0523	*	Th		0538	*
		1014	1.4F			1029	1.1F
	1256	1724	4.0E		1313	1736	3.1E
	2151				2210		
13		0106	2.3F	28		0113	1.6F
Th		0611	*	F		0609	*
		1057	1.4F			1058	1.1F
	1343	1811	3.9E		1348	1810	3.0E
	2239				2239		
14		0148	2.2F	29		0143	1.6F
F		0705	*	Sa		0641	*
		1147	1.3F			1139	1.1F
	1431	1858	3.7E		1423	1840	2.9E
	2326				2307		
15		0235	2.1F	30		0215	1.5F
Sa		0753	*	Su		0722	*
		1240	1.1F			1216	0.9F
	1520	1943	3.3E		1458	1917	2.7E
					2333		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0244	1.5F	16		0308	1.6F
M	0634	0805	0.3E	Tu	0622	0907	1.1E
	0948	1303	0.8F		1233	1501	0.5F
	1535	1951	2.4E		1711	2039	1.5E
	2358						
2		0315	1.4F	17	0015	0336	1.4F
Tu	0650	0851	0.6E	W	0646	1000	1.4E
	1120	1359	0.5F		1424	1622	0.4F
	1617	2032	2.0E		1819	2122	0.9E
3	0022	0343	1.4F	18	0021	0409	1.2F
W	0711	0948	0.9E	Th	0719	1103	1.6E
	1311	1518	0.3F		1612	1803	0.3F
	1714	2117	1.5E		2010	2205	0.3E
4	0046	0418	1.3F	19	0001	0442	1.1F
Th	0735	1045	1.2E	F	0750	1206	1.0E
	1511	1703	0.3F		1730	1946	0.5F
	1849	2210	0.9E			2313	*
5	0107	0459	1.2F	20		0529	0.9F
F	0805	1146	1.7E	Sa	0831	1310	2.1E
	1640	1852	0.5F		1823	2108	0.8F
	2118	2318	0.4E				
6	0120	0536	1.1F	21		0055	0.5F
Sa	0841	1248	2.2E	Su		0619	0.9F
	1742	2022	0.9F		0919	1409	2.3E
					1906	2203	1.0F
7		0049	*	22		0255	0.5F
Su		0627	1.1F	M		0723	0.9F
	0924	1349	2.7E		1009	1458	2.5E
	1834	2139	1.3F		1944	2240	1.2F
8		0215	0.3F	23		0348	0.4F
M		0723	1.2F	Tu		0817	0.9F
	1013	1446	3.2E		1059	1542	2.7E
	1923	2232	1.8F		2018	2315	1.4F
9		0329	0.3F	24		0421	0.3F
Tu		0817	1.3F	W		0906	1.0F
	1105	1539	3.6E		1146	1617	2.8E
	2011	2320	2.1F		2049	2350	1.5F
10		0430	0.3F	25		0448	*
W		0916	1.4F	Th		0948	1.1F
	1159	1629	3.9E		1228	1648	2.9E
	2057				2118		
11		0003	2.2F	26		0013	1.5F
Th		0515	*	F		0518	*
		1011	1.5F			1030	1.2F
	1252	1715	3.9E		1308	1719	2.9E
	2141				2143		
12		0046	2.2F	27		0040	1.6F
F		0602	*	Sa		0546	*
		1104	1.5F			1105	1.2F
	1344	1800	3.8E		1345	1751	2.9E
	2222				2206		
13		0127	2.1F	28		0103	1.6F
Sa		0645	*	Su	0435	0620	0.5E
		1154	1.4F		0813	1143	1.2F
	1435	1843	3.4E		1423	1822	2.7E
	2259				2227		
14		0201	2.0F	29		0130	1.6F
Su	0546	0729	0.5E	M	0447	0656	0.7E
	0926	1248	1.2F		0913	1224	1.1F
	1525	1921	2.9E		1501	1855	2.4E
	2331				2247		
15		0235	1.8F	30		0150	1.5F
M	0602	0817	0.8E	Tu	0503	0731	1.0E
	1054	1351	1.0F		1016	1309	1.0F
	1616	2003	2.2E		1544	1924	2.1E
	2358				2305		
				31		0213	1.4F
				W	0522	0814	1.3E
					1126	1406	0.8F
					1634	2007	1.6E
					2323		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0238	1.3F	16		0248	1.1F
Th	0545	0901	1.5E	F	0554	0952	1.9E
	1249	1520	0.6F		1512	1732	0.5F
	1741	2042	1.0E			2117	*
	2337						
2		0305	1.2F	17		0309	0.9F
F	0614	0952	1.8E	Sa	0632	1101	1.8E
	1428	1651	0.5F		1641	1920	0.6F
	1926	2139	0.5E			2212	0.4F
	2342						
3		0336	1.1F	18		0330	0.7F
Sa	0652	1101	2.1E	Su	0723	1215	1.9E
	1605	1848	0.7F		1747	2049	0.8F
		2253	*				
4		0419	1.0F	19		0103	0.5F
Su	0740	1215	2.4E	M		0520	0.6F
	1720	2023	1.0F		0827	1335	2.0E
					1835	2138	1.0F
5		0040	0.4F	20		0311	0.4F
M		0540	0.9F	Tu		0703	0.6F
	0841	1326	2.8E		0938	1434	2.2E
	1819	2127	1.5F		1914	2209	1.2F
6		0225	0.5F	21		0340	*
Tu		0703	1.0F	W		0812	0.8F
	0949	1431	3.1E		1041	1519	2.4E
	1911	2220	1.8F		1947	2236	1.3F
7		0334	0.3F	22		0401	*
W		0813	1.2F	Th		0903	1.0F
	1056	1529	3.4E		1135	1554	2.5E
	1957	2303	2.0F		2015	2305	1.4F
8		0422	*	23	0254	0424	0.3E
Th		0922	1.4F	F	0607	0950	1.1F
	1158	1621	3.6E		1222	1629	2.6E
	2039	2340	2.1F		2040	2330	1.5F
9	0348	0503	0.3E	24	0252	0452	0.6E
F	0623	1017	1.5F	Sa	0703	1032	1.3F
	1256	1703	3.5E		1306	1657	2.6E
	2117				2101	2352	1.5F
10		0015	2.1F	25	0300	0519	0.9E
Sa	0350	0540	0.6E	Su	0752	1107	1.3F
	0740	1112	1.6F		1347	1728	2.4E
	1351	1745	3.2E		2120		
	2150						
11		0042	1.9F	26		0015	1.5F
Su	0402	0620	1.0E	M	0312	0548	1.2E
	0848	1202	1.6F		0840	1147	1.4F
	1443	1821	2.8E		1429	1757	2.2E
	2218				2137		
12		0112	1.8F	27		0033	1.5F
M	0417	0657	1.3E	Tu	0327	0617	1.5E
	0953	1252	1.4F		0928	1228	1.3F
	1534	1902	2.2E		1514	1830	1.9E
	2240				2153		
13		0140	1.6F	28		0053	1.4F
Tu	0436	0738	1.6E	W	0345	0657	1.8E
	1100	1350	1.2F		1021	1315	1.2F
	1626	1937	1.6E		1604	1905	1.5E
	2254				2208		
14		0203	1.4F	29		0114	1.4F
W	0458	0813	1.8E	Th	0406	0735	2.0E
	1213	1451	0.9F		1120	1407	1.1F
	1723	2007	1.0E		1705	1941	1.0E
	2259				2220		
15		0226	1.2F	30		0137	1.3F
Th	0523	0901	1.8E	F	0432	0816	2.2E
	1336	1602	0.6F		1232	1524	0.9F
	1836	2042	0.4E		1827	2022	0.5E
	2248				2223		
				31		0154	1.1F
				Sa	0505	0913	2.3E
					1400	1658	0.8F
						2119	*

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

TAMPA BAY ENTRANCE (Egmont Channel), FLORIDA, 1991

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0548	0229	1.0F
	1535	1021	2.3E
		1848	1.0F
		2250	0.4F
2 M	0649	0312	0.8F
	1655	1146	2.4E
		2011	1.3F
3 Tu	0809	0114	0.5F
	1757	0510	0.7F
		1309	2.6E
		2108	1.6F
4 W	0937	0253	0.3F
	1847	0711	0.8F
		1418	2.8E
		2151	1.8F
5 Th	1056	0332	*
	1930	0827	1.1F
		1516	3.0E
		2229	1.9F
6 F	0213	0409	0.5E
	0611	0930	1.3F
	1204	1603	2.9E
	2006	2258	1.9F
7 Sa	0218	0439	1.0E
	0716	1027	1.6F
	1305	1646	2.7E
	2037	2327	1.8F
8 Su	0229	0514	1.4E
	0812	1116	1.7F
	1401	1726	2.3E
	2103	2354	1.7F
9 M	0244	0549	1.8E
	0905	1205	1.7F
	1455	1801	1.9E
	2122		
10 Tu	0302	0018	1.6F
	0957	0618	2.1E
	1548	1252	1.6F
	2135	1830	1.4E
11 W	0322	0037	1.4F
	1049	0653	2.3E
	1642	1339	1.4F
	2140	1905	0.9E
12 Th	0344	0100	1.3F
	1146	0728	2.3E
	1744	1435	1.1F
	2136	1934	0.5E
13 F	0409	0112	1.1F
	1250	0810	2.3E
		1536	0.9F
		2009	*
14 Sa	0439	0127	1.0F
	1409	0857	2.1E
		1659	0.7F
		2051	*
15 Su	0516	0142	0.8F
	1536	0954	1.9E
		1841	0.7F
		2205	0.5F
16 M	0607	0143	0.6F
	1650	1113	1.8E
		1958	0.8F
17 Tu	0725	1242	1.8E
	1744	2048	1.0F
18 W	0858	0306	*
	1825	0654	0.4F
		1351	1.9E
		2121	1.2F
19 Th	1017	0315	*
	1857	0803	0.6F
		1440	2.0E
		2148	1.3F
20 F	0124	0334	0.5E
	0554	0857	0.9F
	1121	1522	2.1E
	1924	2217	1.4F
21 Sa	0124	0355	0.9E
	0643	0944	1.1F
	1216	1557	2.1E
	1946	2238	1.4F
22 Su	0132	0424	1.3E
	0725	1027	1.3F
	1306	1628	2.0E
	2006	2258	1.5F
23 M	0145	0448	1.7E
	0806	1108	1.5F
	1355	1700	1.8E
	2023	2321	1.5F
24 Tu	0201	0517	2.1E
	0848	1149	1.6F
	1445	1735	1.5E
	2039	2337	1.4F
25 W	0219	0546	2.4E
	0932	1232	1.6F
	1538	1812	1.2E
	2053	2358	1.4F
26 Th	0241	0627	2.7E
	1020	1320	1.6F
	1639	1847	0.8E
	2103		
27 F	0306	0019	1.3F
	1116	0706	2.8E
	1756	1416	1.4F
	2105	1928	0.4E
28 Sa	0337	0040	1.2F
	1222	0752	2.8E
		1530	1.3F
		2019	*
29 Su	0414	0109	1.1F
	1341	0847	2.7E
		1700	1.2F
		2127	0.4F
30 M	0502	0130	0.9F
	1506	0958	2.5E
		1831	1.3F
		2327	0.5F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0609	0214	0.6F
	1621	1122	2.4E
		1940	1.4F
2 W	0747	0205	*
	1721	0537	0.4F
		1250	2.3E
		2034	1.6F
3 Th	0932	0246	*
	1808	0727	0.6F
		1359	2.3E
		2115	1.7F
4 F	0047	0315	0.7E
	0554	0841	1.0F
	1102	1457	2.2E
	1846	2144	1.7F
5 Sa	0052	0345	1.3E
	0651	0941	1.3F
	1216	1545	2.0E
	1917	2213	1.7F
6 Su	0104	0419	1.8E
	0741	1030	1.5F
	1321	1625	1.7E
	1942	2238	1.6F
7 M	0120	0447	2.3E
	0826	1120	1.7F
	1420	1700	1.3E
	2000	2301	1.5F
8 Tu	0139	0517	2.6E
	0909	1203	1.7F
	1516	1738	1.0E
	2011	2321	1.4F
9 W	0159	0546	2.8E
	0952	1250	1.7F
	1612	1805	0.6E
	2017	2343	1.3F
10 Th	0222	0621	2.8E
	1035	1334	1.5F
	1711	1839	0.3E
	2016		
11 F	0246	0001	1.2F
	1122	0656	2.8E
		1419	1.3F
		1909	*
12 Sa	0313	0016	1.1F
	1214	0731	2.6E
		1518	1.1F
		1950	*
13 Su	0342	0034	0.9F
	1315	0814	2.3E
		1625	0.9F
		2042	0.3F
14 M	0415	0043	0.7F
	1426	0907	2.1E
		1742	0.9F
		2201	0.4F
15 Tu	0456	0052	0.5F
	1535	1013	1.8E
		1858	0.9F
16 W	0602	1136	1.7E
	1631	1945	1.1F
17 Th	1714	0220	*
	2359	0621	*
		1251	1.6E
		2024	1.2F
18 F	0529	0233	0.5E
	0942	0749	0.4F
	1747	1347	1.6E
	2359	2052	1.3F
19 Sa	0614	0256	1.0E
	1104	0846	0.8F
	1815	1436	1.5E
		2116	1.3F
20 Su	0652	0009	0.9F
	1212	0935	1.1F
	1837	1517	1.4E
		2139	1.4F
21 M	0729	0023	0.8F
	1314	1023	1.4F
	1858	1559	1.3E
		2201	1.4F
22 Tu	0808	0041	0.9F
	1413	0420	2.4E
	1915	1108	1.7F
		1635	1.1E
		2224	1.4F
23 W	0848	0103	0.9F
	1513	0451	2.9E
	1931	1151	1.8F
		1718	0.8E
		2249	1.4F
24 Th	0932	0127	1.0F
	1619	0526	3.2E
	1942	1238	1.9F
		1753	0.5E
		2312	1.4F
25 F	1020	0156	1.1F
		0607	3.4E
		1329	1.9F
		1836	*
		2340	1.3F
26 Sa	0229	0650	3.4E
	1115	1424	1.8F
		1926	*
27 Su	0306	0008	1.2F
	1216	0737	3.2E
		1530	1.6F
		2023	0.4F
28 M	0348	0037	1.0F
	1323	0832	3.0E
		1647	1.5F
		2145	0.5F
29 Tu	0437	0118	0.7F
	1431	0936	2.6E
		1758	1.5F
		2357	0.3F
30 W	0543	0318	0.4F
	1534	1055	2.2E
		1854	1.5F
31 Th	0730	0133	*
	1627	0551	0.3F
	2320	1212	1.8E
		1943	1.5F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 100° True E-Ebb, Dir. 285° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0215	0.8E
F	0527	0738	0.5F
	0932	1329	1.5E
	1710	2018	1.5F
	2328		
2		0247	1.4E
Sa	0623	0850	0.9F
	1115	1429	1.3E
	1743	2053	1.5F
	2343		
3		0319	2.0E
Su	0710	0947	1.2F
	1241	1525	1.0E
	1808	2120	1.4F
4	0002	0351	2.5E
M	0751	1039	1.5F
	1353	1606	0.7E
	1826	2145	1.4F
5	0024	0423	2.8E
Tu	0831	1121	1.7F
	1459	1644	0.4E
	1836	2213	1.4F
6	0048	0451	3.0E
W	0908	1204	1.7F
		1719	*
		2236	1.3F
7	0113	0524	3.1E
Th	0945	1245	1.7F
		1748	*
		2255	1.2F
8	0140	0555	3.1E
F	1023	1325	1.6F
		1821	*
		2318	1.2F
9	0208	0631	3.0E
Sa	1103	1408	1.5F
		1856	*
		2341	1.1F
10	0238	0706	2.8E
Su	1146	1457	1.3F
		1938	*
11		0002	0.9F
M	0308	0747	2.6E
	1233	1546	1.2F
		2032	0.3F
12		0031	0.7F
Tu	0340	0831	2.3E
	1323	1651	1.1F
		2142	0.3F
13		0106	0.5F
W	0413	0923	2.0E
	1413	1740	1.1F
		2318	*
14		0236	*
Th		1023	1.6E
	1459	1832	1.1F
	2223		
15		0041	0.3E
F		0539	*
		1134	1.3E
	1540	1909	1.2F
	2227		
16		0136	0.8E
Sa	0538	0724	0.3F
	0857	1240	1.1E
	1615	1940	1.2F
	2240		
17		0205	1.4E
Su	0613	0830	0.6F
	1050	1346	0.9E
	1645	2009	1.2F
	2259		
18		0240	2.0E
M	0648	0929	1.1F
	1220	1440	0.7E
	1712	2041	1.3F
	2322		
19		0315	2.5E
Tu	0725	1020	1.5F
	1339	1529	0.5E
	1735	2112	1.3F
	2349		
20		0351	3.0E
W	0804	1109	1.8F
	1452	1617	0.4E
	1754	2139	1.4F
21	0019	0432	3.4E
Th	0847	1152	2.0F
		1706	*
		2211	1.4F
22	0054	0512	3.7E
F	0932	1241	2.1F
		1749	*
		2246	1.4F
23	0132	0554	3.8E
Sa	1020	1329	2.1F
		1836	*
		2320	1.4F
24	0213	0640	3.7E
Su	1111	1426	2.0F
		1928	0.3F
25		0003	1.2F
M	0256	0729	3.5E
	1203	1521	1.9F
		2029	0.3F
26		0051	1.0F
Tu	0342	0818	3.0E
	1256	1615	1.7F
		2142	*
27		0200	0.6F
W	0433	0915	2.5E
	1346	1706	1.6F
		2316	*
28		0352	0.3F
Th	0537	1018	1.9E
	1432	1756	1.5F
	2137		
29		0032	0.7E
F		0556	*
		1124	1.3E
	1512	1842	1.4F
	2154		
30		0133	1.3E
Sa	0542	0738	0.5F
	0941	1248	0.8E
	1543	1920	1.3F
	2216		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0216	1.9E
Su	0633	0857	0.8F
	1154	1358	0.4E
	1604	1956	1.3F
	2242		
2		0254	2.4E
M	0715	0953	1.2F
		1500	*
		2030	1.2F
	2310		
3		0329	2.7E
Tu	0754	1042	1.4F
		1554	*
		2059	1.2F
	2340		
4		0404	3.0E
W	0830	1123	1.6F
		1630	*
		2128	1.2F
5	0011	0433	3.1E
Th	0905	1206	1.7F
		1706	*
		2203	1.2F
6	0043	0507	3.2E
F	0939	1239	1.7F
		1739	*
		2232	1.2F
7	0116	0539	3.2E
Sa	1013	1316	1.7F
		1811	*
		2301	1.1F
8	0149	0613	3.1E
Su	1047	1351	1.6F
		1846	*
		2326	1.1F
9	0221	0648	2.9E
M	1121	1429	1.5F
		1923	*
10		0000	0.9F
Tu	0254	0723	2.7E
	1154	1509	1.4F
		2006	*
11		0039	0.7F
W	0326	0800	2.4E
	1227	1549	1.3F
		2108	*
12		0128	0.5F
Th	0400	0841	2.1E
	1258	1625	1.2F
	2015	2211	0.3E
13		0251	*
F		0930	1.6E
	1328	1702	1.2F
	2033	2314	0.7E
14		0453	*
Sa		1021	1.2E
	1356	1739	1.1F
	2056		
15		0016	1.2E
Su		0648	*
		1127	0.7E
	1424	1820	1.1F
	2123		
16		0111	1.7E
M	0557	0817	0.6F
	1055	1252	0.3E
	1449	1901	1.1F
	2154		
17		0201	2.3E
Tu	0636	0925	1.1F
		1409	*
		1944	1.2F
	2229		
18		0246	2.8E
W	0717	1016	1.5F
		1515	*
		2027	1.3F
	2309		
19		0332	3.3E
Th	0800	1105	1.9F
		1611	*
		2108	1.4F
	2352		
20		0416	3.7E
F	0844	1154	2.1F
		1702	*
		2151	1.5F
21	0037	0502	4.0E
Sa	0929	1235	2.3F
		1747	*
		2239	1.5F
22	0124	0548	4.0E
Su	1014	1324	2.2F
		1834	*
		2326	1.5F
23	0212	0635	3.8E
M	1058	1406	2.1F
		1918	*
24		0017	1.3F
Tu	0301	0718	3.4E
	1140	1447	2.0F
		2014	*
25		0120	1.0F
W	0350	0803	2.9E
	1218	1528	1.8F
	1914	2109	0.5E
	2332		
26		0226	0.7F
Th	0443	0847	2.2E
	1251	1608	1.5F
	1936	2212	0.9E
27	0152	0357	0.4F
F	0546	0936	1.4E
	1316	1648	1.4F
	2001	2321	1.3E
28	0408	0546	0.3F
Sa	0726	1032	0.7E
	1328	1727	1.2F
	2032		
29		0030	1.7E
Su	0532	0735	0.4F
		1142	*
		1810	1.1F
	2107		
30		0136	2.1E
M	0627	0903	0.8F
		1324	0.3F
		1856	1.0F
	2145		
31		0227	2.4E
Tu	0710	1000	1.1F
		1454	0.4F
		1940	1.0F
	2226		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

MOBILE BAY ENTRANCE, ALABAMA, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	1120 2353	0451 1755	3.1E 2.9F
2 W	1215	0540 1844	2.8E 2.6F
3 Th	0044 1304	0623 1927	2.4E 2.0F
4 F	0128 1340	0658 1948	1.8E 1.4F
5 Sa	0201 1343	0713 2003	1.1E 0.7F
6 Su	0158 1143 2111	0640 1544	0.6E 0.3F
7 M	0805 1833	0332 1344	0.3E 0.6F
8 Tu	0634 1841	0013 1320	0.8E 1.0F
9 W	0641 1912	0022 1329	1.3E 1.4F
10 Th	0711 1951	0103 1401	1.7E 1.7F
11 F	0750 2035	0138 1439	2.0E 1.9F
12 Sa	0834 2121	0221 1527	2.1E 2.0F
13 Su	0920 2206	0307 1611	2.3E 2.1F
14 M	1006 2250	0350 1654	2.3E 2.1F
15 Tu	1051 2331	0431 1728	2.3E 2.1F
16 W	1132	0513 1811	2.2E 2.0F
17 Th	0008 1210	0555 1840	2.1E 1.8F
18 F	0043 1245	0625 1909	1.8E 1.5F
19 Sa	0115 1318	0651 1930	1.4E 1.1F
20 Su	0144 1338	0706 1906	0.9E 0.5F
21 M	0145	0600 1500	0.3E *
22 Tu	0446 1641	0008 1117 2313	0.3E 0.5F 0.9E
23 W	0448 1714	1118 2342	1.2F 1.6E
24 Th	0531 1805	1155	1.8F
25 F	0624 1903	0025 1250	2.1E 2.3F
26 Sa	0722 2004	0115 1351	2.6E 2.6F
27 Su	0823 2105	0207 1457	2.9E 2.8F
28 M	0925 2205	0304 1559	3.0E 2.8F
29 Tu	1026 2302	0357 1703	2.8E 2.6F
30 W	1124 2356	0445 1758	2.5E 2.2F
31 Th	1220	0528 1900	2.0E 1.7F

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 F	0046 1313	0558 1949	1.4E 1.1F
2 Sa	0131 1359	0618 2030	0.8E 0.4F
3 Su		0518 1203 1935	* * *
4 M	1544	1057 2132	0.6F 0.8E
5 Tu	0406 1634	1109 2229	1.0F 1.2E
6 W	0447 1725	1130 2323	1.3F 1.5E
7 Th	0535 1820	1213	1.5F
8 F	0625 1917	0018 1305	1.8E 1.7F
9 Sa	0719 2014	0112 1405	1.9E 1.8F
10 Su	0814 2108	0205 1505	2.0E 1.9F
11 M	0906 2158	0254 1559	2.1E 1.9F
12 Tu	0956 2243	0336 1650	2.1E 1.8F
13 W	1043 2327	0418 1730	2.0E 1.7F
14 Th	1129	0501 1813	1.7E 1.5F
15 F	0010 1220	0536 1854	1.4E 1.1F
16 Sa	0059 1331	0600 1957	0.9E 0.7F
17 Su	0214	0700 2314	0.4E *
18 M		0324 0659 1850	* * 0.5E
19 Tu	0110 1402	0822 2032	0.8F 1.1E
20 W	0243 1515	0916 2143	1.4F 1.7E
21 Th	0351 1625	1013 2252	1.9F 2.1E
22 F	0457 1736	1116 2354	2.2F 2.4E
23 Sa	0603 1846	1227	2.4F
24 Su	0709 1955	0057 1338	2.6E 2.4F
25 M	0815 2101	0154 1451	2.5E 2.3F
26 Tu	0921 2205	0251 1603	2.3E 2.1F
27 W	1029 2308	0340 1717	2.0E 1.6F
28 Th	1147	0426 1848	1.4E 1.2F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) or (E) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 F	0015 1413	0449 2029	0.8E 0.7F	16 Sa	0136 1739	0624 1026 1108 2318	0.4E 0.3E 0.3E 0.5F
2 Sa	1926	0518 0918 1504 2345	* * 0.3E 0.3F	17 Su	0848 2126	1539	0.7E
3 Su	1152 2334	0245 0746 1720	* 0.3F 0.7E	18 M	1104 2331	0511 1713	0.8F 1.2E
4 M	1310	0753 1850	0.8F 1.1E	19 Tu	1222	0634 1831	1.4F 1.6E
5 Tu	0120 1412	0822 2005	1.1F 1.3E	20 W	0056 1332	0736 1947	1.8F 2.0E
6 W	0228 1513	0917 2113	1.4F 1.5E	21 Th	0210 1443	0839 2103	2.2F 2.3E
7 Th	0331 1618	1000 2224	1.5F 1.7E	22 F	0321 1557	0940 2213	2.3F 2.4E
8 F	0433 1726	1103 2333	1.6F 1.7E	23 Sa	0430 1711	1047 2324	2.3F 2.4E
9 Sa	0535 1835	1208	1.6F	24 Su	0538 1824	1155	2.2F
10 Su	0637 1940	0033 1315	1.8E 1.6F	25 M	0645 1936	0025 1317	2.2E 1.9F
11 M	0737 2041	0128 1427	1.8E 1.5F	26 Tu	0751 2048	0122 1446	1.8E 1.4F
12 Tu	0834 2137	0223 1533	1.7E 1.4F	27 W	0906 2208	0203 1630	1.3E 1.0F
13 W	0932 2235	0310 1643	1.6E 1.3F	28 Th	1213	0226 1906	0.8E 0.5F
14 Th	1040 2343	0352 1807	1.3E 1.0F	29 F	1820	0301 0715 1348 2302	* * 0.4E 0.4F
15 F	1245	0442 1949	0.9E 0.7F	30 Sa	0952 2109	0107 0535 1516	0.3F 0.4F 0.9E
				31 Su	1053 2237	0536 1625	0.9F 1.3E

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 M	1143 2341	0605 1723	1.2F 1.5E	16 Tu	1118 2342	0519 1724	2.0F 2.3E
2 Tu	1232	0634 1817	1.5F 1.7E	17 W	1219	0619 1825	2.4F 2.5E
3 W	0040 1324	0720 1920	1.6F 1.8E	18 Th	0049 1323	0718 1934	2.6F 2.6E
4 Th	0138 1421	0812 2028	1.7F 1.8E	19 F	0156 1428	0818 2039	2.6F 2.6E
5 F	0238 1524	0901 2135	1.7F 1.8E	20 Sa	0301 1535	0919 2140	2.5F 2.3E
6 Sa	0340 1631	0957 2236	1.6F 1.7E	21 Su	0403 1640	1013 2240	2.1F 2.0E
7 Su	0440 1738	1054 2338	1.5F 1.6E	22 M	0501 1744	1116 2332	1.6F 1.5E
8 M	0537 1844	1157	1.3F	23 Tu	0550 1849	1210 2355	1.0F 0.9E
9 Tu	0633 1951	0033 1306	1.5E 1.1F	24 W	0615 2012	1308 2356	0.3F 0.3E
10 W	0730 2109	0130 1448	1.2E 0.8F	25 Th	1837	0634 1332	* 0.3E
11 Th	0853 2320	0219 1721	0.8E 0.5F	26 F	0903 2022	0453 1421	0.5F 0.9E
12 F	1652	0336 0839 1247 2216	0.3E * 0.3E 0.4F	27 Sa	0935 2115	0427 1504	1.0F 1.4E
13 Sa	0744 1946	1424	0.8E	28 Su	1011 2200	0436 1545	1.4F 1.8E
14 Su	0916 2120	0254 1524	0.9F 1.4E	29 M	1049 2245	0505 1633	1.7F 2.0E
15 M	1018 2234	0418 1622	1.5F 1.9E	30 Tu	1129 2331	0534 1715	1.9F 2.1E

Time meridian 90° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) or (E) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

MOBILE BAY ENTRANCE, ALABAMA, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 W	1213	0609 1806	2.0F 2.1E
2 Th	0020 1301	0651 1902	2.0F 2.1E
3 F	0112 1352	0737 1956	1.9F 2.0E
4 Sa	0204 1444	0818 2050	1.8F 1.9E
5 Su	0255 1536	0904 2145	1.7F 1.7E
6 M	0342 1627	0936 2233	1.4F 1.4E
7 Tu	0424 1718	0956 2308	1.1F 1.0E
8 W	0458 1816	1003 2343	0.7F 0.5E
9 Th		0829 1454 1935 2330	* * * *
10 F	1856	0514 1354	* 0.6E
11 Sa	0813 1955	0226 1414	0.7F 1.2E
12 Su	0848 2050	0247 1458	1.4F 1.8E
13 M	0934 2147	0336 1534	2.0F 2.4E
14 Tu	1026 2246	0430 1630	2.5F 2.8E
15 W	1122 2347	0519 1725	2.8F 3.0E
16 Th	1221	0617 1825	3.0F 3.0E
17 F	0048 1320	0712 1920	2.9F 2.8E
18 Sa	0148 1417	0804 2015	2.7F 2.5E
19 Su	0242 1510	0853 2101	2.2F 2.0E
20 M	0327 1555	0934 2124	1.6F 1.3E
21 Tu	0349 1617	0921 2128	0.9F 0.7E
22 W	0255	0642 1906	0.4F *
23 Th	0843 2018	0424 1353	0.5F 0.7E
24 F	0833 2021	0339 1400	1.0F 1.3E
25 Sa	0857 2049	0332 1429	1.4F 1.8E
26 Su	0929 2123	0347 1512	1.8F 2.1E
27 M	1004 2202	0416 1547	2.0F 2.3E
28 Tu	1043 2243	0451 1630	2.1F 2.4E
29 W	1124 2327	0523 1711	2.2F 2.4E
30 Th	1207	0606 1759	2.2F 2.3E
31 F	0012 1250	0640 1842	2.1F 2.2E

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Sa	0057 1332	0715 1928	2.0F 2.1E
2 Su	0138 1412	0752 2011	1.8F 1.8E
3 M	0215 1446	0813 2049	1.6F 1.5E
4 Tu	0246 1512	0828 2112	1.2F 1.1E
5 W	0302 1505	0809 2054	0.8F 0.5E
6 Th	0223	0638 1521	0.4F *
7 F	0805 1901	0343 1341	0.4F 0.8E
8 Sa	0738 1924	0157 1342	1.0F 1.4E
9 Su	0804 2007	0201 1411	1.6F 2.1E
10 M	0846 2058	0242 1452	2.2F 2.6E
11 Tu	0937 2155	0330 1541	2.7F 3.0E
12 W	1032 2253	0430 1631	3.0F 3.2E
13 Th	1128 2352	0524 1726	3.1F 3.2E
14 F	1224	0620 1820	3.0F 3.0E
15 Sa	0048 1317	0715 1906	2.7F 2.5E
16 Su	0139 1404	0759 1947	2.2F 1.9E
17 M	0218 1439	0833 1959	1.5F 1.3E
18 Tu	0226 1435	0801 1921	0.8F 0.6E
19 W	0045 1019 2103	0454 1620	0.4F 0.4E
20 Th	0733 1929	0249 1313	0.7F 0.9E
21 F	0734 1934	0211 1320	1.2F 1.4E
22 Sa	0802 2002	0226 1354	1.6F 1.9E
23 Su	0838 2038	0247 1418	1.9F 2.1E
24 M	0917 2117	0324 1501	2.1F 2.3E
25 Tu	0959 2200	0405 1542	2.2F 2.4E
26 W	1042 2243	0445 1626	2.2F 2.4E
27 Th	1124 2326	0525 1710	2.2F 2.4E
28 F	1205	0607 1750	2.2F 2.3E
29 Sa	0006 1242	0641 1828	2.0F 2.1E
30 Su	0043 1316	0703 1900	1.8F 1.8E

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* Current weak and variable.

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 M	0116 1345	0727 1937	1.6F 1.5E	16 Tu	0150 1357	0800 1809	0.6F 0.4E
2 Tu	0142 1406	0742 1933	1.2F 1.0E	17 W	1833	0220 1350	* 0.3E
3 W	0152 1349	0715 1906	0.7F 0.5E	18 Th	0531 1748	0042 1125	0.7F 0.8E
4 Th	0049 0950 1918	0515 1421	0.3F 0.3E	19 F	0601 1812	0029 1154	1.1F 1.4E
5 F	0642 1802	0149 1238	0.5F 0.8E	20 Sa	0642 1850	0052 1235	1.5F 1.8E
6 Sa	0629 1826	0029 1242	1.0F 1.5E	21 Su	0729 1934	0133 1321	1.8F 2.0E
7 Su	0702 1910	0059 1317	1.7F 2.1E	22 M	0818 2021	0224 1404	1.9F 2.2E
8 M	0749 2003	0141 1400	2.2F 2.6E	23 Tu	0907 2109	0308 1453	2.0F 2.2E
9 Tu	0843 2100	0236 1446	2.7F 3.0E	24 W	0955 2156	0402 1539	2.1F 2.3E
10 W	0940 2200	0332 1540	2.9F 3.1E	25 Th	1041 2241	0450 1621	2.1F 2.2E
11 Th	1038 2259	0432 1634	3.0F 3.1E	26 F	1123 2323	0532 1703	2.0F 2.1E
12 F	1134 2357	0532 1723	2.9F 2.8E	27 Sa	1201	0557 1739	1.9F 1.9E
13 Sa	1227	0621 1806	2.6F 2.4E	28 Su	0001 1237	0637 1808	1.6F 1.6E
14 Su	0050 1315	0718 1849	2.0F 1.7E	29 M	0036 1311	0712 1843	1.3F 1.2E
15 M	0135 1353	0759 1848	1.4F 1.0E	30 Tu	0109 1343	0727 1903	0.9F 0.7E
				31 W	0134	0654 1806	0.4F *

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Th		0147 1044 2226	* * 0.5F	16 F	0349 1612	0949 2256	1.3E 1.5F
2 F	0356 1610	1039 2230	0.8E 1.1F	17 Sa	0449 1707	1052 2339	1.6E 1.6F
3 Sa	0439 1658	1108 2324	1.4E 1.7F	18 Su	0550 1802	1150	1.8E
4 Su	0533 1754	1155	2.0E	19 M	0653 1859	0039 1247	1.7F 1.9E
5 M	0633 1853	0019 1252	2.1F 2.4E	20 Tu	0754 1956	0145 1344	1.8F 2.0E
6 Tu	0736 1955	0116 1345	2.5F 2.7E	21 W	0852 2051	0248 1433	1.8F 2.0E
7 W	0839 2059	0227 1439	2.7F 2.9E	22 Th	0945 2143	0343 1520	1.7F 1.9E
8 Th	0942 2202	0336 1533	2.7F 2.8E	23 F	1034 2232	0447 1608	1.7F 1.8E
9 F	1042 2306	0440 1623	2.5F 2.4E	24 Sa	1120 2322	0536 1638	1.5F 1.5E
10 Sa	1140	0547 1712	2.2F 1.9E	25 Su	1207	0629 1713	1.2F 1.2E
11 Su	0011 1237	0650 1755	1.6F 1.3E	26 M	0020 1305	0719 1754	0.9F 0.7E
12 M	0126 1339	0805 1756	1.0F 0.6E	27 Tu	0207	0856 1837 2217	0.5F * *
13 Tu	0433	0948 1649 2202	0.3F * *	28 W	2343	0242 1735	* 0.3F
14 W	1341	0639 2144	0.4E 0.7F	29 Th	1225	0607 1939	0.6E 0.9F
15 Th	0244 1514	0835 2207	0.9E 1.2F	30 F	0121 1400	0749 2034	1.1E 1.4F
				31 Sa	0234 1511	0906 2136	1.6E 1.8F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
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* Current weak and variable.

MOBILE BAY ENTRANCE, ALABAMA, 1991

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

SEPTEMBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Su	0345 1619	1015 2239	2.0E 2.1F
2 M	0457 1726	1121 2346	2.3E 2.3F
3 Tu	0610 1834	1224	2.5E
4 W	0721 1942	0059 1325	2.4F 2.5E
5 Th	0831 2050	0215 1425	2.2F 2.3E
6 F	0939 2204	0332 1517	2.0F 1.9E
7 Sa	1050 2343	0500 1603	1.5F 1.3E
8 Su	1214	0636 1652	1.0F 0.7E
9 M	0334	0901 1642 1832	0.6F * *
10 Tu	0828 2326	0315 1833	0.6E 0.6F
11 W	1123	0502 1911	1.0E 1.1F
12 Th	0040 1254	0626 1957	1.3E 1.4F
13 F	0142 1402	0736 2048	1.6E 1.6F
14 Sa	0244 1505	0845 2137	1.7E 1.7F
15 Su	0348 1607	0954 2235	1.8E 1.7F
16 M	0457 1709	1100 2337	1.8E 1.6F
17 Tu	0608 1812	1207	1.8E
18 W	0716 1912	0052 1304	1.5F 1.7E
19 Th	0820 2011	0209 1352	1.4F 1.6E
20 F	0921 2111	0324 1436	1.2F 1.3E
21 Sa	1025 2231	0447 1536	1.0F 1.0E
22 Su	1146	0618 1619	0.8F 0.6E
23 M	0219 1435	0842	0.5F
24 Tu	0655 2122	0205 1257	0.4E 0.5F
25 W	0931 2250	0343 1648	0.9E 1.0F
26 Th	1108 2356	0453 1758	1.3E 1.4F
27 F	1225	0608 1900	1.7E 1.9F
28 Sa	0101 1335	0718 2001	2.0E 2.2F
29 Su	0208 1444	0827 2058	2.2E 2.3F
30 M	0318 1552	0937 2207	2.4E 2.3F

OCTOBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	0430 1659	1046 2313	2.3E 2.2F
2 W	0543 1805	1149	2.1E
3 Th	0655 1911	0027 1246	1.9F 1.8E
4 F	0811 2025	0144 1340	1.4F 1.3E
5 Sa	0942	0321 1415	0.8F 0.6E
6 Su	0125	0718 1356 1751	0.4F * *
7 M	0711 2140	0157 1644	0.6E 0.7F
8 Tu	0917 2237	0314 1705	1.2E 1.2F
9 W	1031 2326	0411 1748	1.6E 1.6F
10 Th	1130	0506 1823	1.8E 1.8F
11 F	0016 1225	0602 1906	2.0E 1.9F
12 Sa	0107 1321	0657 1952	2.0E 1.9F
13 Su	0202 1418	0800 2039	2.0E 1.8F
14 M	0302 1517	0907 2134	1.9E 1.7F
15 Tu	0405 1614	1012 2232	1.8E 1.5F
16 W	0509 1708	1110 2320	1.6E 1.3F
17 Th	0614 1758	1205	1.4E
18 F	0721 1847	0021 1245	1.0F 1.0E
19 Sa	0846	0118 1342 2242	0.6F 0.6E *
20 Su		0015 0648 1409 1846	* 0.3F * *
21 M	0614 2029	0143 1221	0.4E 0.5F
22 Tu	0804 2118	0232 1505	0.9E 1.0F
23 W	0915 2207	0321 1608	1.5E 1.5F
24 Th	1018 2300	0411 1657	1.9E 2.0F
25 F	1120 2356	0507 1752	2.3E 2.4F
26 Sa	1223	0601 1848	2.5E 2.6F
27 Su	0055 1326	0706 1945	2.6E 2.6F
28 M	0157 1429	0806 2045	2.6E 2.5F
29 Tu	0300 1529	0906 2139	2.4E 2.2F
30 W	0402 1624	1001 2231	2.0E 1.7F
31 Th	0502 1709	1044 2303	1.5E 1.1F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
If three consecutive entries are marked (F) or (E) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

NOVEMBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots	Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 F	0559 1724	1119 2154	0.9E 0.4F	16 Sa	0508 1545	1038 1924	0.4E 0.3F
2 Sa		1026 1749	* *	17 Su	2036	0237 1643	* 0.3F
3 Su	0731 2046	0143 1608	0.4E 0.7F	18 M	0716 2018	0156 1429	0.7E 0.8F
4 M	0822 2117	0212 1555	1.1E 1.2F	19 Tu	0755 2044	0214 1444	1.3E 1.4F
5 Tu	0908 2155	0253 1619	1.6E 1.7F	20 W	0841 2123	0243 1519	1.8E 1.9F
6 W	0952 2235	0336 1648	2.0E 2.0F	21 Th	0932 2211	0324 1609	2.3E 2.4F
7 Th	1036 2317	0419 1723	2.2E 2.1F	22 F	1028 2304	0418 1658	2.7E 2.7F
8 F	1122	0500 1806	2.3E 2.2F	23 Sa	1126 2359	0508 1754	2.9E 2.9F
9 Sa	0002 1209	0550 1844	2.3E 2.1F	24 Su	1225	0558 1850	3.0E 2.9F
10 Su	0049 1259	0641 1926	2.2E 2.0F	25 M	0055 1322	0657 1939	2.9E 2.7F
11 M	0138 1348	0736 2008	2.1E 1.9F	26 Tu	0151 1415	0746 2028	2.5E 2.3F
12 Tu	0227 1435	0825 2044	1.9E 1.7F	27 W	0242 1500	0833 2103	2.0E 1.7F
13 W	0316 1517	0917 2119	1.7E 1.4F	28 Th	0325 1523	0856 2112	1.4E 1.0F
14 Th	0401 1552	1003 2131	1.4E 1.0F	29 F	0341 1426	0843 1836	0.7E 0.4F
15 F	0441 1613	1032 2101	0.9E 0.6F	30 Sa	0021 1021 2017	0558 1549	0.3E 0.6F

DECEMBER

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots	Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Su	0758 2009	0142 1454	0.8E 1.1F	16 M	0655 1932	0124 1343	0.8E 1.0F
2 M	0805 2036	0151 1504	1.4E 1.6F	17 Tu	0714 1954	0131 1350	1.4E 1.5F
3 Tu	0836 2111	0221 1524	1.9E 2.0F	18 W	0754 2033	0201 1424	2.0E 2.1F
4 W	0912 2150	0255 1559	2.2E 2.2F	19 Th	0842 2121	0237 1513	2.5E 2.6F
5 Th	0952 2231	0330 1642	2.4E 2.3F	20 F	0936 2214	0326 1609	2.9E 2.9F
6 F	1034 2314	0419 1717	2.5E 2.3F	21 Sa	1034 2309	0415 1704	3.1E 3.1F
7 Sa	1118 2357	0501 1755	2.5E 2.3F	22 Su	1132	0509 1758	3.1E 3.0F
8 Su	1202	0544 1837	2.4E 2.2F	23 M	0004 1228	0600 1853	3.0E 2.7F
9 M	0040 1245	0628 1912	2.3E 2.0F	24 Tu	0057 1319	0644 1942	2.6E 2.3F
10 Tu	0121 1324	0711 1941	2.1E 1.8F	25 W	0144 1402	0718 2016	2.0E 1.6F
11 W	0159 1358	0751 2004	1.8E 1.5F	26 Th	0221 1417	0742 2012	1.3E 0.8F
12 Th	0231 1424	0820 2003	1.4E 1.1F	27 F	0222 1225 2139	0701 1631	0.6E 0.3F
13 F	0251 1430	0830 1933	1.0E 0.7F	28 Sa	0807 1850	0324 1354	0.3E 0.7F
14 Sa	0222 1333 2229	0806 1752	0.5E 0.4F	29 Su	0652 1901	0042 1332	0.9E 1.2F
15 Su	0828 1955	0245 1520	0.3E 0.5F	30 M	0709 1936	0051 1349	1.5E 1.7F
				31 Tu	0743 2017	0126 1424	2.0E 2.0F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
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* Current weak and variable.

GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1991

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Tu	0255	0917	4.2E	16 W		0127	*
	1351	1712	3.0F			0230	*
						0923	3.1E
					1359	1708	2.2F
2 W	0406	1004	3.8E	17 Th	0416	0958	2.9E
	1440	1758	2.6F		1432	1740	1.9F
3 Th		0220	*	18 F		0015	*
		0402	*			0151	*
		1057	3.1E			1027	2.5E
	1528	1835	2.1F		1505	1812	1.6F
4 F		0223	*	19 Sa		0030	*
		0522	*			0450	*
		1147	2.3E			1100	2.0E
	1615	1913	1.6F		1537	1844	1.3F
	2349				2228		
5 Sa		0218	0.5E	20 Su		0055	0.4E
		0648	*			0617	*
		1249	1.5E			1142	1.3E
	1702	1945	1.1F		1610	1917	0.8F
	2321				2141		
6 Su		0251	1.0E	21 M		0127	0.8E
		0818	*		0556	0745	0.3F
		1406	0.6E		0921	1227	0.6E
	1753	2025	0.7F		1637	1944	0.4F
	2249				2120		
7 M	0800	0336	1.4E	22 Tu		0202	1.3E
		1007	0.5F		0651	0920	0.7F
		1743	*			1536	*
		2059	0.3F			1959	*
	2234						
8 Tu	0845	0416	1.8E	23 W		0251	1.8E
		1251	1.1F		0744	1051	1.3F
		1928	*		1837		
		2142	*				
9 W	0928	0459	2.2E	24 Th		0351	2.4E
		1340	1.6F		0837	1220	2.0F
		2034	*		1921		
		2230	*				
10 Th	1010	0545	2.5E	25 F		0451	2.9E
	1951	1416	2.0F		0931	1327	2.6F
		2133	0.3E		2014		
		2319	*				
11 F	1051	0623	2.7E	26 Sa		0548	3.4E
	2040	1451	2.2F		1023	1411	3.0F
		2217	0.3E		2115		
12 Sa		0005	*	27 Su		0648	3.8E
		0703	3.0E		1115	1456	3.1F
	1131	1516	2.3F			2315	*
		2259	*				
13 Su		0043	*	28 M		0030	*
		0742	3.1E			0738	4.0E
	1210	1539	2.4F		1205	1537	3.1F
		2341	*			2328	*
14 M		0120	*	29 Tu		0128	0.3F
		0821	3.2E		0240	0827	4.0E
	1248	1608	2.4F		1254	1609	2.8F
						2318	*
15 Tu		0024	*	30 W		0228	0.5F
		0200	*		0356	0915	3.7E
		0854	3.2E		1340	1641	2.4F
	1324	1638	2.3F			2312	*
				31 Th		0325	0.6F
					0505	1003	3.1E
					1423	1712	2.0F
					2150	2328	0.4E

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 F	0145	0428	0.7F	16 Sa	0105	0418	0.8F
	0613	1052	2.4E		0616	1033	1.9E
	1505	1742	1.5F		1444	1720	1.0F
	2125	2356	0.7E		1952	2302	0.9E
2 Sa	0307	0531	0.7F	17 Su	0201	0515	0.9F
	0726	1141	1.6E		0728	1116	1.3E
	1545	1814	1.0F		1518	1744	0.6F
	2054				1933	2318	1.3E
3 Su		0031	1.1E	18 M	0305	0625	1.0F
	0428	0642	0.7F		0906	1219	0.6E
	0901	1243	0.8E			1758	*
	1627	1842	0.5F			2343	1.7E
	2035						
4 M	0544	0111	1.4E	19 Tu	0420	0740	1.2F
		0759	0.7F			1354	*
		1409	*			1538	*
		1917	*				
5 Tu	0653	0200	1.6E	20 W		0016	2.0E
		0935	0.9F		0542	0903	1.4F
		1851	*		1728		
		1946	*				
6 W	0756	0257	1.8E	21 Th		0129	2.3E
	1802	1239	1.3F		0701	1045	1.8F
					1812		
7 Th	0852	0403	2.0E	22 F		0309	2.6E
	1842	1322	1.7F		0811	1222	2.3F
		2041	0.4E		1857		
		2151	0.4E				
8 F		0510	2.3E	23 Sa		0431	3.0E
	0943	1403	1.9F		0915	1323	2.6F
	1923	2114	0.4E		1941		
		2248	0.3E				
9 Sa		0606	2.6E	24 Su		0540	3.3E
	1029	1432	2.1F		1013	1402	2.7F
	2005	2145	0.3E			2154	*
		2348	*			2344	*
10 Su		0649	2.8E	25 M		0643	3.5E
	1112	1457	2.2F		1105	1431	2.7F
		2214	*			2148	*
11 M		0034	*	26 Tu		0047	0.3F
		0732	3.0E		0201	0738	3.4E
	1152	1512	2.2F		1154	1500	2.4F
		2235	*		2010	2143	0.3E
					2325		
12 Tu		0120	0.3F	27 W		0144	0.7F
	0228	0805	3.1E		0329	0827	3.2E
	1229	1533	2.1F		1240	1526	2.1F
		2231	*		1952	2144	0.5E
13 W		0157	0.4F	28 Th	0004	0239	1.0F
	0326	0841	3.0E		0446	0914	2.7E
	1304	1556	2.0F		1323	1555	1.6F
		2219	*		1934	2159	0.9E
14 Th		0244	0.5F				
	0420	0916	2.8E				
	1337	1623	1.8F				
	2104	2227	0.3E				
15 F	0013	0327	0.7F				
	0515	0951	2.4E				
	1411	1652	1.4F				
	2030	2242	0.5E				

Time meridian 90° W. 0000 is midnight. 1200 is noon.
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F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0050	0336	1.2F	16	0021	0332	1.4F
F	0600	1000	2.1E	Sa	0611	0948	1.7E
	1404	1624	1.2F		1358	1558	0.7F
	1909	2225	1.3E		1751	2142	1.5E
2	0140	0430	1.3F	17	0100	0422	1.6F
Sa	0717	1049	1.5E	Su	0730	1042	1.1E
	1446	1648	0.7F		1447	1621	0.3F
	1848	2254	1.5E		1734	2154	1.9E
3	0233	0525	1.3F	18	0147	0517	1.8F
Su	0848	1143	0.8E	M	0918	1145	0.6E
	1533	1715	0.3F			1624	*
	1836	2318	1.8E			2218	2.3E
4	0330	0625	1.3F	19	0243	0624	1.9F
M		1252	*	Tu		1322	*
		1737	*			1410	*
		2347	1.9E			2250	2.6E
5	0435	0734	1.3F	20	0350	0734	2.0F
Tu	1540			W	1603	2339	2.7E
6		0033	1.9E	21	0509	0857	2.1F
W	0547	0857	1.2F	Th	1654		
	1638						
7		0136	1.9E	22		0058	2.7E
Th	0701	1200	1.4F	F	0631	1034	2.2F
	1721				1737		
8		0310	1.9E	23		0246	2.7E
F	0809	1251	1.7F	Sa	0748	1153	2.4F
	1800				1811		
9		0432	2.1E	24		0420	2.7E
Sa	0907	1328	1.8F	Su	0855	1244	2.4F
	1835	2045	0.5E		1827	2037	0.5E
		2228	0.4E			2244	0.3E
10		0535	2.3E	25		0535	2.8E
Su	0958	1351	1.9F	M	0954	1317	2.2F
	1903	2107	0.4E		1820	2039	0.5E
		2331	*			2355	*
11		0624	2.5E	26		0638	2.7E
M	1043	1404	1.9F	Tu	1046	1346	1.9F
	1917	2121	0.3E		1806	2033	0.7E
					2301		
12		0025	*	27		0058	0.7F
Tu		0707	2.6E	W	0259	0736	2.4E
	1123	1421	1.8F		1135	1412	1.6F
	1915	2109	0.3E		1752	2030	1.1E
	2315				2331		
13		0111	0.5F	28		0155	1.2F
W	0246	0748	2.6E	Th	0434	0830	2.1E
	1201	1442	1.7F		1220	1436	1.2F
	1905	2057	0.5E		1732	2045	1.5E
	2327						
14		0157	0.8F	29	0007	0250	1.5F
Th	0355	0829	2.4E	F	0559	0917	1.6E
	1239	1509	1.4F		1305	1502	0.8F
	1845	2106	0.7E		1709	2105	1.8E
	2349						
15		0243	1.1F	30	0045	0339	1.8F
F	0501	0912	2.1E	Sa	0721	1014	1.1E
	1317	1536	1.1F		1353	1531	0.5F
	1813	2121	1.1E		1656	2135	2.1E
				31	0125	0428	1.9F
				Su	0848	1103	0.6E
						1553	*
						2155	2.3E

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0206	0517	1.9F	16	0138	0519	2.6F
M		1231	*	Tu	1213	2150	3.2E
		1609	*				
		2224	2.3E				
2	0253	0613	1.8F	17	0235	0621	2.7F
Tu	1337	2245	2.3E	W	1442	2233	3.3E
3	0347	0715	1.7F	18	0340	0729	2.6F
W	1507	2312	2.2E	Th	1540	2331	3.2E
4	0453	0823	1.6F	19	0452	0843	2.5F
Th	1558			F	1623		
5		0003	2.0E	20		0048	2.9E
F	0607	0954	1.5F	Sa	0608	0959	2.4F
	1638				1648		
6		0203	1.9E	21		0232	2.5E
Sa	0717	1137	1.6F	Su	0720	1100	2.2F
	1711	2000	0.7E		1649	1925	0.6E
		2015	0.7E			2124	0.5E
7		0333	1.9E	22		0400	2.2E
Su	0819	1209	1.7F	M	0825	1146	1.9F
	1730	2006	0.6E		1632	1927	0.8E
		2211	0.4E			2252	*
8		0448	2.0E	23		0524	2.0E
M	0913	1230	1.6F	Tu	0924	1218	1.6F
	1734	2021	0.6E		1617	1926	1.1E
		2314	*		2224		
9		0550	2.0E	24		0009	0.6F
Tu	1000	1256	1.5F	W	0225	0639	1.6E
	1726	2009	0.6E		1018	1244	1.2F
	2249				1600	1923	1.5E
					2250		
10		0011	0.3F	25		0115	1.1F
W	0136	0641	2.0E	Th	0429	0742	1.3E
	1045	1320	1.4F		1110	1313	0.9F
	1712	1948	0.8E		1537	1942	1.9E
	2254				2323		
11		0103	0.8F	26		0209	1.6F
Th	0316	0730	1.8E	F	0603	0850	1.0E
	1130	1349	1.1F		1202	1341	0.5F
	1644	1955	1.2E		1519	2005	2.3E
	2311				2358		
12		0157	1.3F	27		0256	2.0F
F	0443	0818	1.6E	Sa	0727	0953	0.7E
	1216	1415	0.8F			1406	*
	1614	2006	1.6E			2026	2.6E
	2336						
13		0243	1.7F	28	0033	0341	2.2F
Sa	0609	0912	1.2E	Su	0851	1118	0.4E
	1309	1437	0.4F			1433	*
	1557	2028	2.1E			2052	2.7E
14	0009	0333	2.2F	29	0110	0430	2.3F
Su	0739	1007	0.8E	M	1026	1324	0.3E
		1459	*			1454	*
		2054	2.6E			2121	2.8E
15	0050	0423	2.5F	30	0149	0512	2.2F
M	0924	1116	0.4E	Tu	1224	2148	2.7E
		1500	*				
		2115	3.0E				

Time meridian 90° W. 0000 is midnight. 1200 is noon.
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GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1991

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 W	0232 1347	0601 2206	2.1F 2.6E
2 Th	0321 1444	0656 2246	2.0F 2.5E
3 F	0417 1526	0752 2331	1.8F 2.3E
4 Sa	0518 1557	0853	1.7F
5 Su	0620 1611	0036 0945	2.0E 1.7F
6 M	0719 1605	0232 1036 1926 2151	1.7E 1.5F 0.7E 0.5E
7 Tu	0815 1550	0350 1114 1919 2257	1.5E 1.4F 0.8E *
8 W	0909 1526 2217	0504 1146 1840	1.4E 1.2F 1.0E
9 Th	0211 1004 1448 2227	0000 0615 1221 1841	0.5F 1.2E 0.9F 1.4E
10 F	0423 1103 1424 2249	0057 0723 1247 1859	1.2F 1.0E 0.5F 2.0E
11 Sa	0605 2320	0151 0832 1313 1919	1.8F 0.7E * 2.5E
12 Su	0740 2359	0240 0949 1338 1949	2.4F 0.5E * 3.0E
13 M	0925	0333 2023	2.8F 3.5E
14 Tu	0044 1158	0425 2059	3.1F 3.8E
15 W	0136 1339	0520 2144	3.2F 3.9E
16 Th	0232 1442	0616 2235	3.1F 3.7E
17 F	0333 1524	0717 2334	2.9F 3.3E
18 Sa	0437 1542	0812	2.6F
19 Su	0542 1522	0049 0912 1814 1950	2.8E 2.2F 0.6E 0.5E
20 M	0645 1452	0213 0958 1809 2133	2.1E 1.8F 0.8E *
21 Tu	0746 1433 2135	0342 1035 1806 2304	1.5E 1.4F 1.2E 0.4F
22 W	0126 0846 1410 2200	0519 1110 1815	1.0E 1.0F 1.7E
23 Th	0416 0946 1346 2233	0026 0701 1145 1836	1.0F 0.7E 0.6F 2.2E
24 F	0607 1048 1335 2309	0135 0838 1215 1902	1.6F 0.5E 0.3F 2.6E
25 Sa	0740	0224 0952 1244 1931	2.0F 0.4E * 2.8E
26 Su	0903	0307 1107 1317 1958	2.3F 0.3E * 3.0E
27 M	0022 1021	0348 1223 1342 2030	2.4F 0.3E * 3.0E
28 Tu	0059 1137	0424 2102	2.4F 3.0E
29 W	0139 1246	0507 2134	2.4F 3.0E
30 Th	0220 1345	0547 2204	2.3F 2.8E
31 F	0304 1430	0636 2239	2.1F 2.7E

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Sa	0349 1500	0719 2316	2.0F 2.4E
2 Su	0435 1510	0802 2357	1.8F 2.0E
3 M	0523 1447	0846 1835 1949	1.6F 0.6E 0.6E
4 Tu	0614 1419	0106 0929 1828 2123	1.6E 1.4F 0.7E 0.3E
5 W	0710 1339	0256 1009 1721 2243	1.1E 1.0F 0.9E *
6 Th	0815 1256 2134	0439 1044 1721 2354	0.7E 0.7F 1.4E 0.9F
7 F	0357 0935 1236 2155	0615 1113 1744	0.4E 0.3F 2.0E
8 Sa	0604	0054 0834 1143 1811	1.6F 0.3E * 2.6E
9 Su	0753	0146 1030 1204 1848	2.3F 0.3E * 3.2E
10 M	0940 2353	0241 1926	2.9F 3.7E
11 Tu	1123	0330 2009	3.2F 4.1E
12 W	0043 1256	0425 2056	3.4F 4.2E
13 Th	0135 1413	0514 2145	3.3F 4.1E
14 F	0229 1507	0603 2239	3.1F 3.7E
15 Sa	0323 1511	0649 2335	2.7F 3.1E
16 Su	0417 1356	0738 1634 1819	2.3F 0.3E *
17 M	0511 1308	0039 0818 1623 1953	2.3E 1.8F 0.6E *
18 Tu	0605 1243	0154 0853 1625 2130	1.4E 1.3F 1.1E *
19 W	0702 1214 2053	0337 0931 1647 2326	0.7E 0.8F 1.7E 0.8F
20 Th	0347 0808 1155 2133	0609 1007 1716	0.3E 0.5F 2.1E
21 F	2212	0108 0803 1046 1751	1.4F * * 2.5E
22 Sa	2252	0203 0916 1124 1831	1.9F * * 2.8E
23 Su	2332	0240 1017 1203 1906	2.2F * * 3.0E
24 M		0315 1109 1240 1941	2.4F * * 3.1E
25 Tu	0011	0348 1211 1314 2021	2.4F * * 3.2E
26 W	0051 1150	0418 2056	2.4F 3.2E
27 Th	0130 1301	0453 2131	2.4F 3.1E
28 F	0208 1356	0530 2202	2.3F 2.9E
29 Sa	0245 1429	0604 2234	2.1F 2.7E
30 Su	0322 1436	0640 2303	1.9F 2.3E

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0357	0714	1.6F	16		0032	1.6E
M	1321	2326	1.8E	Tu	0439	0719	1.1F
					1031	1402	1.1E
					1808	1947	0.5F
					2158		
2	0434	0752	1.3F	17		0149	0.7E
Tu	1230	1706	0.4E	W	0527	0753	0.7F
		1933	*		1004	1445	1.5E
					1913	2125	0.7F
3		0024	1.2E	18		0436	*
W	0514	0827	0.9F	Th		0829	0.3F
	1129	1512	0.8E		0955	1534	1.9E
		2103	*		2010		
4		0226	0.5E	19		0014	1.2F
Th	0602	0903	0.5F	F		0713	*
	1058	1541	1.3E			0911	*
	2019	2227	0.6F			1626	2.2E
					2101		
5		0439	*	20		0119	1.7F
F		0938	*	Sa		0824	*
		1613	1.8E			1000	*
	2048	2343	1.3F			1717	2.5E
					2148		
6		0851	*	21		0206	2.0F
Sa		1007	*	Su	0743	0919	0.3E
		1651	2.4E			1048	*
	2126					1806	2.8E
					2234		
7		0052	2.0F	22		0240	2.2F
Su	0758	1737	3.0E	M	0829	1001	0.3E
	2211					1139	*
						1850	2.9E
					2317		
8		0148	2.6F	23		0313	2.3F
M	0906	1826	3.6E	Tu		1040	*
	2259					1226	*
						1932	3.1E
					2359		
9		0242	3.1F	24		0334	2.3F
Tu	1025	1915	4.0E	W		1118	*
	2349					1309	*
						2010	3.1E
10		0328	3.3F	25	0038	0358	2.3F
W	1224	2009	4.2E	Th		1154	*
						1350	*
						2045	3.1E
11	0040	0411	3.3F	26	0115	0422	2.2F
Th	1440	2057	4.2E	F		1236	*
						1429	*
						2118	3.0E
12	0130	0452	3.0F	27	0149	0451	2.0F
F	1559	2145	3.9E	Sa		1203	*
						1508	*
						2148	2.7E
13	0219	0534	2.7F	28	0222	0523	1.8F
Sa		1311	*	Su		1151	*
		1548	0.3F			1553	*
	1711	2235	3.3E			2222	2.4E
14	0307	0610	2.2F	29	0254	0552	1.5F
Su		1246	*	M		1207	*
		1705	0.3F			1653	*
	1823	2331	2.5E			2257	1.9E
15	0354	0644	1.6F	30	0326	0624	1.1F
M	1104	1321	0.6E	Tu	0944	1227	0.5E
	1647	1826	0.3F		1549	1800	0.3F
	1949				1924	2335	1.3E
				31	0358	0653	0.7F
				W	0907	1248	0.8E
					1708	1923	0.4F
					2109		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0042	0.6E	16	0444	1426	2.0E
Th	0429	0721	0.3F	F	1922		
	0848	1326	1.3E				
	1812	2045	0.7F				
2		0254	*	17		0002	1.5F
F		0444	*	Sa	0536	1535	2.1E
		1412	1.7E		2025		
	1911	2215	1.2F				
3	0612	1514	2.2E	18		0059	1.8F
Sa	2007	2343	1.8F	Su	0619	0825	0.4E
						0922	0.4E
						1643	2.3E
					2120		
4	0658	1617	2.7E	19		0140	2.0F
Su	2103			M	0659	0854	0.4E
						1036	0.3E
						1743	2.5E
					2210		
5		0052	2.3F	20		0217	2.1F
M	0751	1717	3.2E	Tu	0739	0921	0.3E
	2157					1132	*
						1838	2.7E
					2256		
6		0145	2.8F	21		0240	2.1F
Tu	0853	1818	3.6E	W		0950	*
	2250					1217	*
						1915	2.9E
					2337		
7		0228	3.0F	22		0258	2.0F
W		1056	*	Th		1005	*
		1109	*			1306	0.3F
		1915	3.9E		1422	1956	2.9E
	2341						
8		0306	3.0F	23	0015	0316	1.9F
Th		1100	*	F		1001	*
		1303	0.3F			1352	0.5F
	1419	2004	3.9E		1522	2031	2.8E
9	0031	0343	2.7F	24	0051	0337	1.8F
F		1034	*	Sa		0955	*
		1405	0.6F			1432	0.6F
	1540	2053	3.6E		1618	2107	2.6E
10	0118	0418	2.4F	25	0125	0406	1.5F
Sa		1035	*	Su	0818	1004	0.4E
		1505	0.8F		1216	1518	0.8F
	1655	2143	3.1E		1713	2142	2.2E
11	0203	0450	1.9F	26	0159	0429	1.2F
Su	0908	1056	0.5E	M	0745	1021	0.7E
	1311	1605	0.9F		1257	1604	0.9F
	1809	2237	2.4E		1813	2220	1.7E
12	0248	0519	1.4F	27	0234	0457	0.9F
M	0838	1125	0.9E	Tu	0713	1039	1.0E
	1429	1711	1.0F		1345	1659	1.0F
	1930	2331	1.6E		1923	2306	1.2E
13	0331	0551	0.9F	28	0313	0520	0.4F
Tu	0809	1154	1.3E	W	0656	1054	1.3E
	1545	1819	1.0F		1440	1802	1.1F
	2120				2059		
14		0034	0.8E	29		0003	0.6E
W	0420	0619	0.4F	Th		0533	*
	0755	1236	1.6E			1110	1.7E
	1701	1936	1.0F		1545	1911	1.2F
15		0206	*	30		0142	*
Th		0648	*	F		0307	*
		1326	1.8E			1144	2.0E
	1814	2106	1.2F		1702	2033	1.4F
				31	0449	1242	2.3E
				Sa	1822	2203	1.8F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1991

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0538	1421	2.5E
	1936	2336	2.2F
2 M	0625	1557	2.8E
	2042		
3 Tu	0711	0041	2.5F
	2142	1704	3.1E
4 W	0748	0125	2.6F
		0930	0.3E
		1116	*
	2236	1813	3.3E
5 Th		0200	2.6F
		0925	*
		1222	0.3F
	1333	1909	3.3E
	2327		
6 F		0229	2.3F
	0732	0907	0.3E
	1058	1322	0.7F
	1509	1959	3.1E
7 Sa	0015	0258	2.0F
	0712	0911	0.6E
	1136	1422	1.1F
	1633	2053	2.6E
8 Su	0100	0327	1.5F
	0649	0928	1.1E
	1223	1516	1.4F
	1754	2143	2.0E
9 M	0145	0354	1.0F
	0622	0951	1.5E
	1314	1613	1.6F
	1921	2237	1.4E
10 Tu	0232	0422	0.6F
	0605	1020	1.8E
	1407	1713	1.6F
	2105	2340	0.7E
11 W		0446	*
		1050	2.0E
	1504	1813	1.6F
12 Th		0103	*
		0506	*
		1124	2.1E
	1608	1918	1.5F
13 F	0306	1208	2.1E
	1719	2040	1.5F
14 Sa	0408	1313	2.0E
	1833	2321	1.6F
15 Su	0452	1441	2.0E
	1943		
16 M	0530	0022	1.7F
		0800	0.6E
		0857	0.6E
		1610	2.1E
	2044		
17 Tu	0602	0057	1.8F
		0820	0.6E
		1019	0.4E
		1717	2.2E
	2137		
18 W	0624	0128	1.8F
		0837	0.5E
		1120	*
		1808	2.4E
	2223		
19 Th	0633	0141	1.8F
		0851	0.4E
		1211	*
		1855	2.4E
	2305		
20 F	0630	0159	1.7F
	0845	0845	0.5E
	1104	1300	0.6F
	1444	1937	2.4E
	2344		
21 Sa	0621	0220	1.5F
	1121	0834	0.7E
	1553	1346	0.9F
		2013	2.2E
22 Su	0022	0245	1.3F
	0600	0842	0.9E
	1143	1432	1.2F
	1700	2056	1.9E
23 M	0101	0307	0.9F
	0531	0857	1.3E
	1211	1516	1.4F
	1809	2136	1.5E
24 Tu	0143	0335	0.6F
	0513	0919	1.6E
	1246	1609	1.7F
	1928	2228	1.0E
25 W		0357	*
		0929	2.0E
	1327	1700	1.8F
	2115	2331	0.5E
26 Th		0345	*
		0947	2.3E
	1417	1803	1.9F
27 F	0032	1017	2.6E
	1519	1909	2.0F
28 Sa	0329	1100	2.7E
	1632	2026	2.1F
29 Su	0421	1203	2.7E
	1753	2151	2.2F
30 M	0505	1353	2.7E
	1910	2311	2.3F

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0539	1536	2.6E
	2019		
2 W	0556	0002	2.3F
		0820	0.5E
		1013	0.4E
		1658	2.6E
	2120		
3 Th	0546	0040	2.2F
		0818	0.5E
		1130	*
		1808	2.5E
	2215		
4 F	0529	0109	1.9F
	1039	0757	0.8E
	1435	1238	0.7F
	2305	1904	2.3E
5 Sa	0512	0141	1.5F
	1106	0758	1.2E
	1620	1336	1.2F
	2354	2005	1.9E
6 Su	0447	0205	1.1F
	1142	0819	1.7E
	1753	1427	1.7F
		2057	1.5E
7 M	0042	0234	0.7F
	0426	0843	2.1E
	1222	1522	2.0F
	1922	2157	1.0E
8 Tu	0134	0302	0.4F
	0415	0906	2.4E
	1303	1612	2.1F
	2056	2300	0.5E
9 W		0323	*
		0933	2.6E
	1347	1708	2.2F
10 Th		0215	*
		0326	*
		0959	2.6E
	1435	1803	2.1F
11 F	0139	1024	2.5E
	1530	1858	1.9F
12 Sa	0249	1103	2.4E
	1634	2008	1.8F
13 Su	0335	1200	2.1E
	1744	2140	1.7F
14 M	0412	1340	1.9E
	1854	2309	1.7F
15 Tu	0440	1515	1.8E
	1956	2346	1.7F
16 W	0455	0742	0.7E
		0954	0.5E
		1631	1.8E
	2051		
17 Th	0455	0007	1.6F
		0751	0.7E
		1105	*
		1735	1.8E
	2139		
18 F	0448	0028	1.5F
		0745	0.8E
		1037	1200 0.3F
		1334	1824 1.7E
		2225	
19 Sa	0433	0057	1.3F
		0732	1.0E
		1046	1251 0.8F
		1519	1918 1.6E
		2309	
20 Su	0405	0120	1.0F
		0735	1.4E
		1104	1340 1.3F
		1647	2007 1.3E
		2356	
21 M	0341	0147	0.7F
		0750	1.8E
		1127	1429 1.7F
		1810	2059 1.0E
22 Tu	0049	0214	0.3F
	0326	0808	2.2E
	1157	1518	2.1F
	1937	2153	0.7E
23 W		0230	*
		0829	2.6E
	1234	1607	2.4F
	2119	2307	0.3E
24 Th		0120	*
		0852	3.0E
	1318	1702	2.6F
25 F	0032	0927	3.3E
	1409	1757	2.6F
26 Sa	0222	1004	3.3E
	1509	1900	2.6F
27 Su	0319	1055	3.2E
	1618	2009	2.5F
28 M	0400	1201	3.0E
	1730	2120	2.4F
29 Tu	0427	1342	2.6E
	1842	2220	2.2F
30 W	0427	0719	0.7E
		0851	0.6E
		1518	2.2E
	1949	2306	1.9F
31 Th	0405	0706	0.8E
		1024	*
		1648	1.9E
	2050	2341	1.6F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0345	0657	1.1E	16	0256	0625	1.1E
F	1004	1142	0.5F	Sa	1008	1154	0.5F
	1354	1809	1.5E		1419	1804	1.0E
	2147				2143	2357	0.8F
2		0015	1.2F	17	0220	0627	1.5E
Sa	0324	0653	1.6E	Su	1019	1246	1.1F
	1027	1251	1.2F		1630	1915	0.8E
	1615	1919	1.2E		2242		
	2241						
3		0044	0.8F	18		0024	0.5F
Su	0259	0713	2.1E	M	0158	0642	2.0E
	1100	1347	1.7F		1041	1340	1.7F
	1756	2030	0.8E		1806	2024	0.6E
	2335						
4		0111	0.5F	19		0053	*
M	0244	0736	2.6E	Tu		0708	2.5E
	1136	1442	2.2F		1109	1424	2.3F
	1926	2142	0.5E		1936	2149	0.4E
5		0140	*	20		0114	*
Tu		0804	2.9E	W		0732	3.0E
	1214	1530	2.4F		1145	1513	2.7F
	2057	2315	0.3E		2121		
6		0208	*	21		0803	3.5E
W		0835	3.0E	Th	1227	1606	3.0F
	1253	1613	2.5F		2355		
7		0111	*	22		0839	3.8E
Th		0217	*	F	1315	1657	3.1F
		0903	3.1E				
	1334	1702	2.5F				
8	0033	0934	3.0E	23	0131	0919	3.9E
F	1418	1747	2.3F	Sa	1407	1751	3.1F
9	0142	1003	2.8E	24	0234	1008	3.8E
Sa	1507	1839	2.1F	Su	1504	1848	2.9F
10	0232	1032	2.6E	25	0318	1101	3.4E
Su	1601	1939	1.9F	M	1605	1943	2.6F
11	0311	1120	2.3E	26	0339	1207	2.9E
M	1659	2036	1.8F	Tu	1706	2035	2.2F
12	0337	1209	2.0E	27	0315	0611	0.5E
Tu	1759	2128	1.6F	W		0657	0.5E
						1329	2.2E
					1809	2124	1.8F
13	0346	0706	0.7E	28	0230	0556	0.7E
W		0752	0.7E	Th		0856	*
		1402	1.7E			1505	1.5E
	1857	2211	1.5F		1912	2204	1.4F
14	0336	0703	0.8E	29	0203	0543	1.2E
Th		0929	0.5E	F	0914	1035	0.3F
		1533	1.4E		1239	1648	0.9E
	1953	2246	1.3F		2014	2242	1.0F
15	0320	0658	0.9E	30	0135	0545	1.7E
F		1048	*	Sa	0937	1209	1.0F
		1650	1.2E		1603	1838	0.6E
	2048	2323	1.1F		2118	2314	0.6F

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0111	0605	2.3E	16	0009	0527	1.9E
Su	1011	1320	1.6F	M	0947	1246	1.5F
	1804	2021	0.4E		1809	2051	0.3E
	2224	2350	0.3F			2326	*
2	0104	0640	2.7E	17		0559	2.5E
M	1049	1409	2.1F	Tu	1017	1336	2.1F
	1941	2140	0.3E		1947	2221	0.3E
						2353	*
3		0021	*	18		0631	3.1E
Tu		0709	3.1E	W	1054	1425	2.7F
	1127	1456	2.5F		2120		
	2101	2249	0.3E				
4		0054	*	19		0709	3.6E
W		0741	3.2E	Th	1137	1514	3.1F
	1206	1533	2.6F		2301		
5		0003	*	20		0752	4.0E
Th		0125	*	F	1224	1603	3.3F
		0818	3.3E				
	1245	1614	2.6F				
	2330						
6		0850	3.2E	21	0049	0835	4.2E
F	1326	1656	2.5F	Sa	1313	1649	3.3F
7	0041	0926	3.1E	22	0225	0924	4.2E
Sa	1407	1736	2.4F	Su	1404	1735	3.1F
8	0141	1001	3.0E	23	0337	1011	3.8E
Su	1449	1816	2.2F	M	1456	1821	2.7F
9	0224	1030	2.7E	24	0431	1105	3.3E
M	1533	1856	2.0F	Tu	1547	1904	2.3F
10	0252	1105	2.4E	25		0406	*
Tu	1617	1940	1.8F	W		0531	*
						1208	2.4E
					1639	1942	1.7F
11	0258	1140	2.0E	26	0036	0320	0.5E
W	1702	2023	1.5F	Th		0716	*
						1317	1.5E
					1732	2022	1.2F
12	0225	0616	0.6E	27	0001	0333	1.0E
Th		0727	0.6E	F	0738	0859	0.3F
		1223	1.5E		1041	1454	0.7E
	1751	2106	1.2F		1830	2100	0.8F
					2327		
13	0152	0610	0.7E	28		0408	1.6E
F		0903	0.3E	Sa	0823	1049	0.8F
		1433	0.9E			1804	*
	1847	2141	0.9F			2137	0.4F
					2312		
14	0110	0511	0.9E	29		0445	2.1E
Sa		1026	*	Su	0907	1259	1.5F
		1616	0.5E			1952	*
	1956	2221	0.6F			2216	*
15	0026	0512	1.4E	30		0528	2.6E
Su	0926	1143	0.8F	M	0951	1354	2.0F
	1607	1818	0.3E			2102	*
	2122	2256	0.3F			2259	*
				31		0611	2.9E
				Tu	1034	1437	2.4F
					2026	2200	0.3E
						2342	*

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

VIEQUES PASSAGE, PUERTO RICO, 1991

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0207	0450	0.5E
	0724	1100	0.9F
	1414	1747	1.1E
	2130		
2 W		0010	0.6F
	0307	0552	0.5E
	0830	1155	0.9F
	1504	1835	1.0E
	2211		
3 Th		0059	0.7F
	0404	0650	0.6E
	0937	1251	0.8F
	1553	1923	1.0E
	2252		
4 F		0147	0.7F
	0459	0751	0.6E
	1044	1347	0.7F
	1641	2007	0.9E
	2331		
5 Sa		0236	0.8F
	0553	0849	0.6E
	1153	1443	0.6F
	1728	2052	0.8E
6 Su	0009	0325	0.8F
	0645	0948	0.7E
	1303	1539	0.4F
	1815	2138	0.7E
7 M	0047	0412	0.8F
	0736	1045	0.7E
	1415	1638	0.4F
	1903	2225	0.6E
8 Tu	0125	0457	0.8F
	0826	1142	0.7E
	1527	1739	0.3F
	1955	2310	0.5E
9 W	0203	0543	0.8F
	0914	1236	0.7E
		1840	*
		2358	0.4E
10 Th	0242	0630	0.8F
	1001	1333	0.7E
		1942	*
11 F		0050	0.3E
	0323	0718	0.7F
	1045	1420	0.8E
		2041	*
12 Sa		0144	0.3E
	0407	0801	0.7F
	1128	1507	0.8E
	1919	2131	0.3F
13 Su	0004	0236	0.3E
	0453	0848	0.7F
	1210	1550	0.8E
	1959	2219	0.3F
14 M	0102	0328	0.3E
	0543	0933	0.7F
	1250	1633	0.8E
	2034	2300	0.4F
15 Tu	0153	0419	0.3E
	0635	1019	0.7F
	1330	1711	0.8E
	2106	2342	0.4F
16 W	0237	0505	0.3E
	0728	1102	0.6F
	1409	1748	0.8E
	2135		
17 Th		0017	0.5F
	0317	0552	0.4E
	0823	1145	0.6F
	1448	1823	0.8E
	2202		
18 F		0052	0.5F
	0355	0637	0.4E
	0919	1232	0.6F
	1527	1858	0.8E
	2228		
19 Sa		0123	0.6F
	0433	0726	0.5E
	1018	1315	0.5F
	1607	1934	0.7E
	2255		
20 Su		0201	0.6F
	0514	0810	0.6E
	1118	1404	0.5F
	1647	2010	0.7E
	2323		
21 M		0239	0.7F
	0557	0904	0.6E
	1222	1455	0.4F
	1730	2050	0.6E
	2355		
22 Tu		0319	0.8F
	0644	0955	0.7E
	1330	1551	0.3F
	1817	2133	0.6E
23 W	0032	0406	0.8F
	0735	1051	0.7E
	1439	1654	0.3F
	1909	2222	0.5E
24 Th	0114	0457	0.9F
	0829	1152	0.8E
	1549	1757	0.3F
	2010	2318	0.5E
25 F	0204	0551	0.9F
	0925	1252	0.8E
	1655	1900	0.3F
	2118		
26 Sa		0021	0.5E
	0301	0652	0.9F
	1022	1352	0.9E
	1754	2008	0.3F
	2231		
27 Su		0128	0.5E
	0404	0754	0.9F
	1119	1451	0.9E
	1846	2108	0.4F
	2342		
28 M		0235	0.5E
	0511	0852	0.9F
	1214	1545	1.0E
	1933	2205	0.5F
29 Tu	0049	0341	0.5E
	0620	0952	0.9F
	1308	1638	1.0E
	2016	2256	0.6F
30 W	0150	0441	0.6E
	0727	1050	0.8F
	1359	1727	1.0E
	2057	2345	0.7F
31 Th	0246	0542	0.6E
	0833	1145	0.8F
	1448	1810	0.9E
	2136		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F		0033	0.7F
	0339	0636	0.7E
	0937	1239	0.7F
	1535	1856	0.9E
	2214		
2 Sa		0116	0.8F
	0430	0733	0.7E
	1039	1331	0.6F
	1620	1938	0.8E
	2251		
3 Su		0202	0.8F
	0519	0824	0.7E
	1141	1423	0.5F
	1704	2018	0.7E
	2327		
4 M		0245	0.8F
	0607	0917	0.7E
	1244	1514	0.4F
	1748	2102	0.6E
5 Tu	0004	0331	0.8F
	0655	1008	0.7E
	1347	1609	0.3F
	1833	2146	0.5E
6 W	0041	0415	0.8F
	0742	1102	0.7E
	1452	1701	0.3F
	1924	2231	0.4E
7 Th	0120	0501	0.7F
	0829	1155	0.7E
		1801	*
		2325	0.4E
8 F	0202	0549	0.7F
	0916	1246	0.7E
		1903	*
9 Sa		0016	0.3E
	0249	0638	0.7F
	1003	1337	0.7E
	1746	2002	0.3F
	2230		
10 Su		0114	0.3E
	0341	0728	0.6F
	1050	1427	0.7E
	1831	2051	0.3F
	2332		
11 M		0212	0.3E
	0437	0818	0.6F
	1136	1513	0.8E
	1910	2139	0.3F
12 Tu	0027	0306	0.3E
	0535	0912	0.6F
	1221	1557	0.8E
	1945	2222	0.4F
13 W	0114	0354	0.4E
	0632	1000	0.6F
	1305	1637	0.8E
	2016	2258	0.5F
14 Th	0155	0443	0.4E
	0729	1044	0.6F
	1348	1715	0.7E
	2044	2333	0.5F
15 F	0234	0530	0.5E
	0825	1132	0.6F
	1429	1751	0.7E
	2111		
16 Sa		0010	0.6F
	0313	0614	0.6E
	0920	1216	0.6F
	1510	1826	0.7E
	2139		
17 Su		0045	0.7F
	0353	0700	0.7E
	1016	1303	0.5F
	1551	1903	0.7E
	2208		
18 M		0122	0.7F
	0436	0749	0.7E
	1113	1348	0.5F
	1632	1944	0.6E
	2240		
19 Tu		0203	0.8F
	0522	0839	0.8E
	1212	1443	0.4F
	1717	2026	0.6E
	2318		
20 W		0248	0.8F
	0611	0929	0.8E
	1314	1534	0.4F
	1805	2111	0.5E
21 Th	0001	0338	0.9F
	0705	1025	0.8E
	1418	1635	0.3F
	1901	2204	0.5E
22 F	0051	0435	0.8F
	0801	1126	0.8E
	1522	1739	0.3F
	2004	2307	0.5E
23 Sa	0150	0534	0.8F
	0901	1229	0.8E
	1623	1841	0.3F
	2113		
24 Su		0015	0.5E
	0256	0635	0.8F
	1001	1330	0.8E
	1719	1946	0.4F
	2225		
25 M		0124	0.5E
	0407	0742	0.8F
	1101	1427	0.8E
	1809	2046	0.5F
	2332		
26 Tu		0230	0.5E
	0520	0845	0.8F
	1159	1524	0.8E
	1855	2141	0.6F
27 W	0033	0335	0.6E
	0630	0948	0.7F
	1253	1613	0.8E
	1937	2230	0.6F
28 Th	0129	0435	0.7E
	0736	1043	0.7F
	1344	1701	0.8E
	2016	2317	0.7F

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0221	0530	0.7E
F	0838	1135	0.7F
	1432	1743	0.8E
	2054		
2		0000	0.8F
Sa	0310	0619	0.8E
	0936	1224	0.6F
	1517	1826	0.7E
	2130		
3		0043	0.8F
Su	0356	0708	0.8E
	1032	1313	0.5F
	1600	1909	0.7E
	2206		
4		0125	0.8F
M	0440	0757	0.8E
	1126	1400	0.5F
	1643	1947	0.6E
	2242		
5		0206	0.8F
Tu	0524	0840	0.8E
	1220	1449	0.4F
	1726	2029	0.5E
	2319		
6		0249	0.7F
W	0608	0929	0.7E
	1314	1538	0.4F
	1813	2114	0.4E
	2358		
7		0330	0.7F
Th	0652	1017	0.7E
	1409	1630	0.3F
	1904	2157	0.4E
8	0041	0416	0.7F
F	0738	1108	0.7E
	1503	1725	0.3F
	2001	2251	0.3E
9	0129	0505	0.6F
Sa	0826	1159	0.7E
	1556	1821	0.3F
	2102	2348	0.3E
10	0224	0559	0.6F
Su	0916	1251	0.7E
	1644	1916	0.3F
	2203		
11		0049	0.3E
M	0325	0656	0.5F
	1008	1342	0.7E
	1728	2005	0.4F
	2258		
12		0148	0.4E
Tu	0430	0752	0.5F
	1059	1431	0.7E
	1807	2054	0.4F
	2347		
13		0240	0.4E
W	0533	0846	0.5F
	1150	1512	0.7E
	1842	2133	0.5F
14	0031	0335	0.5E
Th	0634	0936	0.5F
	1238	1555	0.6E
	1914	2212	0.6F
15	0112	0423	0.6E
F	0730	1030	0.5F
	1324	1637	0.6E
	1944	2250	0.6F
16	0153	0506	0.7E
Sa	0825	1116	0.5F
	1409	1714	0.6E
	2015	2327	0.7F
17	0234	0553	0.8E
Su	0918	1202	0.5F
	1453	1754	0.6E
	2047		
18		0006	0.8F
M	0317	0637	0.8E
	1011	1248	0.5F
	1537	1835	0.6E
	2123		
19		0048	0.8F
Tu	0403	0725	0.9E
	1104	1337	0.5F
	1622	1918	0.6E
	2203		
20		0133	0.9F
W	0451	0815	0.9E
	1159	1429	0.5F
	1710	2007	0.5E
	2248		
21		0222	0.9F
Th	0542	0909	0.9E
	1255	1522	0.4F
	1803	2058	0.5E
	2341		
22		0315	0.8F
F	0637	1006	0.9E
	1353	1622	0.4F
	1902	2157	0.5E
23	0041	0414	0.8F
Sa	0735	1101	0.8E
	1450	1723	0.4F
	2007	2303	0.5E
24	0149	0520	0.7F
Su	0836	1204	0.8E
	1545	1823	0.5F
	2115		
25		0012	0.5E
M	0305	0628	0.7F
	0939	1304	0.8E
	1636	1924	0.5F
	2220		
26		0124	0.5E
Tu	0422	0737	0.6F
	1041	1403	0.7E
	1724	2021	0.6F
	2321		
27		0230	0.6E
W	0536	0839	0.6F
	1140	1453	0.7E
	1809	2114	0.7F
28	0016	0328	0.7E
Th	0644	0942	0.6F
	1236	1544	0.7E
	1850	2159	0.7F
29	0107	0424	0.8E
F	0745	1033	0.6F
	1327	1630	0.6E
	1929	2245	0.8F
30	0154	0513	0.8E
Sa	0842	1124	0.5F
	1414	1713	0.6E
	2006	2325	0.8F
31	0238	0601	0.8E
Su	0934	1211	0.5F
	1459	1754	0.5E
	2042		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0006	0.8F
M	0319	0644	0.9E
	1022	1257	0.5F
	1543	1835	0.5E
	2118		
2		0046	0.8F
Tu	0400	0726	0.8E
	1109	1342	0.4F
	1627	1915	0.5E
	2155		
3		0124	0.7F
W	0439	0807	0.8E
	1155	1427	0.4F
	1712	1959	0.4E
	2234		
4		0205	0.7F
Th	0520	0850	0.8E
	1240	1514	0.4F
	1800	2042	0.4E
	2317		
5		0248	0.6F
F	0601	0937	0.8E
	1326	1558	0.4F
	1852	2131	0.3E
6	0006	0337	0.6F
Sa	0646	1022	0.7E
	1412	1650	0.4F
	1946	2226	0.3E
7	0102	0425	0.5F
Su	0734	1109	0.7E
	1456	1742	0.4F
	2041	2326	0.3E
8	0206	0522	0.5F
M	0825	1200	0.6E
	1539	1831	0.4F
	2134		
9		0023	0.4E
Tu	0316	0623	0.4F
	0920	1249	0.6E
	1619	1920	0.5F
	2222		
10		0123	0.4E
W	0425	0725	0.4F
	1017	1340	0.6E
	1657	2001	0.5F
	2308		
11		0218	0.5E
Th	0531	0821	0.4F
	1112	1426	0.6E
	1732	2044	0.6F
	2351		
12		0309	0.7E
F	0632	0916	0.5F
	1206	1510	0.5E
	1807	2126	0.7F
13	0034	0355	0.8E
Sa	0728	1008	0.5F
	1257	1553	0.5E
	1842	2205	0.8F
14	0117	0443	0.9E
Su	0821	1058	0.5F
	1346	1636	0.5E
	1919	2249	0.8F
15	0201	0529	0.9E
M	0912	1148	0.5F
	1434	1721	0.5E
	2000	2331	0.9F
16	0247	0618	1.0E
Tu	1003	1237	0.5F
	1523	1810	0.5E
	2044		
17		0017	0.9F
W	0335	0706	1.0E
	1053	1326	0.5F
	1614	1859	0.5E
	2134		
18		0108	0.9F
Th	0425	0755	1.0E
	1143	1417	0.5F
	1707	1955	0.5E
	2229		
19		0201	0.8F
F	0517	0849	1.0E
	1234	1510	0.5F
	1805	2052	0.5E
	2331		
20		0259	0.8F
Sa	0612	0944	0.9E
	1325	1606	0.5F
	1906	2155	0.5E
21	0040	0400	0.7F
Su	0710	1038	0.8E
	1415	1707	0.6F
	2009	2301	0.5E
22	0157	0507	0.6F
M	0811	1136	0.8E
	1504	1802	0.6F
	2111		
23		0013	0.6E
Tu	0318	0617	0.5F
	0913	1235	0.7E
	1551	1859	0.6F
	2210		
24		0118	0.6E
W	0436	0725	0.5F
	1016	1330	0.6E
	1636	1952	0.7F
	2305		
25		0221	0.7E
Th	0548	0828	0.5F
	1116	1421	0.6E
	1719	2042	0.7F
	2356		
26		0315	0.8E
F	0653	0931	0.5F
	1213	1510	0.5E
	1800	2126	0.8F
27	0042	0408	0.8E
Sa	0750	1023	0.4F
	1306	1558	0.5E
	1838	2210	0.8F
28	0125	0453	0.9E
Su	0841	1112	0.4F
	1356	1639	0.4E
	1916	2250	0.8F
29	0206	0536	0.9E
M	0928	1157	0.4F
	1443	1722	0.4E
	1953	2329	0.8F
30	0244	0618	0.9E
Tu	1010	1240	0.4F
	1529	1804	0.4E
	2031		

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

VIEQUES PASSAGE, PUERTO RICO, 1991

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0008	0.7F
W	0321	0658	0.9E
	1051	1321	0.4F
	1615	1845	0.3E
	2111		
2		0045	0.7F
Th	0358	0735	0.9E
	1130	1404	0.4F
	1702	1928	0.3E
	2154		
3		0128	0.6F
F	0436	0814	0.8E
	1208	1449	0.4F
	1749	2017	0.3E
	2242		
4		0210	0.6F
Sa	0515	0857	0.8E
	1246	1531	0.4F
	1838	2108	0.3E
	2337		
5		0257	0.5F
Su	0558	0938	0.7E
	1323	1614	0.5F
	1926	2203	0.3E
6	0041	0350	0.5F
M	0644	1023	0.7E
	1400	1700	0.5F
	2014	2300	0.4E
7	0152	0449	0.4F
Tu	0735	1110	0.6E
	1436	1745	0.5F
	2100	2357	0.4E
8	0305	0548	0.4F
W	0830	1157	0.6E
	1512	1827	0.6F
	2146		
9		0053	0.5E
Th	0417	0652	0.4F
	0929	1246	0.5E
	1548	1913	0.7F
	2231		
10		0147	0.7E
F	0524	0753	0.4F
	1028	1334	0.5E
	1626	1956	0.7F
	2315		
11		0241	0.8E
Sa	0625	0851	0.4F
	1127	1423	0.5E
	1705	2042	0.8F
12	0001	0331	0.9E
Su	0720	0945	0.4F
	1224	1512	0.5E
	1747	2128	0.9F
13	0047	0420	1.0E
M	0812	1039	0.4F
	1320	1603	0.5E
	1834	2216	0.9F
14	0135	0508	1.1E
Tu	0902	1129	0.5F
	1414	1656	0.5E
	1924	2305	0.9F
15	0223	0557	1.1E
W	0950	1218	0.5F
	1509	1748	0.5E
	2017	2356	0.9F
16	0313	0647	1.1E
Th	1036	1311	0.6F
	1605	1845	0.5E
	2116		
17		0050	0.9F
F	0403	0735	1.1E
	1123	1403	0.6F
	1702	1944	0.5E
	2220		
18		0147	0.8F
Sa	0455	0829	1.0E
	1208	1456	0.6F
	1800	2045	0.5E
	2329		
19		0245	0.7F
Su	0549	0919	0.9E
	1254	1547	0.7F
	1900	2150	0.5E
20	0044	0347	0.6F
M	0645	1013	0.8E
	1339	1642	0.7F
	1959	2255	0.6E
21	0204	0455	0.5F
Tu	0742	1107	0.7E
	1423	1737	0.7F
	2057		
22		0002	0.6E
W	0324	0601	0.4F
	0842	1202	0.6E
	1506	1831	0.8F
	2152		
23		0106	0.7E
Th	0442	0710	0.4F
	0943	1251	0.5E
	1549	1920	0.8F
	2243		
24		0205	0.8E
F	0552	0814	0.4F
	1045	1347	0.5E
	1630	2009	0.8F
	2331		
25		0258	0.8E
Sa	0654	0913	0.3F
	1145	1436	0.4E
	1710	2052	0.8F
26	0015	0345	0.9E
Su	0747	1004	0.3F
	1242	1524	0.4E
	1750	2137	0.8F
27	0056	0432	0.9E
M	0834	1057	0.4F
	1336	1608	0.3E
	1829	2215	0.8F
28	0135	0514	0.9E
Tu	0916	1142	0.4F
	1427	1656	0.3E
	1909	2255	0.7F
29	0212	0552	0.9E
W	0953	1224	0.4F
	1516	1737	0.3E
	1951	2336	0.7F
30	0247	0628	0.9E
Th	1028	1303	0.4F
	1602	1822	0.3E
	2036		
31		0013	0.6F
F	0323	0705	0.9E
	1102	1342	0.4F
	1647	1909	0.3E
	2125		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0056	0.6F
Sa	0400	0743	0.8E
	1134	1418	0.5F
	1731	1954	0.3E
	2219		
2		0143	0.5F
Su	0439	0821	0.8E
	1206	1458	0.5F
	1813	2044	0.3E
	2319		
3		0228	0.5F
M	0520	0858	0.7E
	1237	1535	0.5F
	1856	2138	0.4E
4	0026	0321	0.4F
Tu	0603	0940	0.7E
	1308	1617	0.6F
	1939	2232	0.4E
5	0137	0415	0.4F
W	0651	1021	0.6E
	1339	1659	0.6F
	2023	2328	0.5E
6	0251	0518	0.3F
Th	0743	1107	0.6E
	1413	1741	0.7F
	2109		
7		0024	0.6E
F	0404	0621	0.3F
	0840	1154	0.5E
	1450	1828	0.8F
	2156		
8		0118	0.7E
Sa	0511	0722	0.3F
	0942	1247	0.5E
	1531	1917	0.8F
	2244		
9		0212	0.8E
Su	0612	0822	0.3F
	1047	1344	0.4E
	1617	2007	0.9F
	2333		
10		0307	0.9E
M	0707	0922	0.4F
	1151	1439	0.4E
	1708	2058	0.9F
11	0023	0356	1.0E
Tu	0758	1020	0.4F
	1253	1535	0.4E
	1803	2151	1.0F
12	0113	0449	1.1E
W	0845	1111	0.5F
	1354	1636	0.5E
	1902	2243	1.0F
13	0204	0538	1.1E
Th	0930	1204	0.5F
	1453	1733	0.5E
	2004	2340	0.9F
14	0255	0627	1.1E
F	1013	1255	0.6F
	1551	1834	0.5E
	2110		
15		0037	0.9F
Sa	0345	0716	1.1E
	1056	1344	0.7F
	1649	1935	0.6E
	2218		
16		0135	0.8F
Su	0436	0807	1.0E
	1138	1433	0.7F
	1746	2036	0.6E
	2329		
17		0231	0.7F
M	0527	0856	0.9E
	1220	1527	0.8F
	1843	2139	0.6E
18	0044	0334	0.5F
Tu	0619	0944	0.8E
	1301	1616	0.8F
	1939	2241	0.7E
19	0201	0436	0.4F
W	0712	1035	0.7E
	1342	1705	0.8F
	2033	2344	0.7E
20	0319	0540	0.4F
Th	0808	1126	0.6E
	1423	1758	0.8F
	2126		
21		0045	0.7E
F	0434	0646	0.3F
	0907	1215	0.5E
	1504	1847	0.8F
	2215		
22		0142	0.8E
Sa	0542	0751	0.3F
	1009	1308	0.4E
	1545	1934	0.8F
	2302		
23		0234	0.8E
Su	0642	0850	0.3F
	1113	1359	0.3E
	1627	2020	0.8F
	2346		
24		0321	0.8E
M	0732	0942	0.3F
	1215	1450	0.3E
	1709	2104	0.8F
25	0027	0408	0.9E
Tu	0815	1035	0.3F
	1314	1542	0.3E
	1753	2147	0.7F
26	0105	0449	0.9E
W	0853	1116	0.4F
	1407	1630	0.3E
	1839	2228	0.7F
27	0143	0526	0.9E
Th	0927	1159	0.4F
	1455	1715	0.3E
	1928	2310	0.7F
28	0220	0602	0.9E
F	0958	1234	0.4F
	1539	1800	0.3E
	2018	2352	0.6F
29	0256	0637	0.9E
Sa	1028	1309	0.5F
	1620	1846	0.3E
	2112		
30		0035	0.6F
Su	0333	0714	0.8E
	1056	1345	0.5F
	1658	1932	0.4E
	2208		

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0118	0.5F
M	0412	0749	0.8E
	1123	1421	0.6F
	1737	2019	0.4E
	2309		
2		0205	0.5F
Tu	0451	0824	0.7E
	1150	1501	0.6F
	1817	2112	0.5E
3	0013	0255	0.4F
W	0532	0902	0.7E
	1218	1536	0.7F
	1859	2201	0.5E
4	0121	0346	0.3F
Th	0616	0943	0.6E
	1249	1617	0.7F
	1944	2257	0.6E
5	0232	0447	0.3F
F	0705	1026	0.5E
	1324	1701	0.8F
	2032	2348	0.7E
6	0343	0547	0.3F
Sa	0801	1115	0.5E
	1405	1752	0.8F
	2123		
7		0049	0.8E
Su	0451	0654	0.3F
	0904	1210	0.5E
	1452	1843	0.9F
	2215		
8		0145	0.9E
M	0551	0757	0.3F
	1013	1312	0.4E
	1546	1938	0.9F
	2309		
9		0241	0.9E
Tu	0645	0857	0.3F
	1123	1415	0.4E
	1645	2036	0.9F
10	0003	0335	1.0E
W	0734	0955	0.4F
	1231	1518	0.5E
	1749	2135	0.9F
11	0056	0427	1.0E
Th	0819	1050	0.5F
	1335	1621	0.5E
	1856	2230	0.9F
12	0148	0518	1.1E
F	0902	1141	0.6F
	1435	1722	0.6E
	2003	2329	0.9F
13	0239	0607	1.0E
Sa	0944	1232	0.7F
	1532	1821	0.6E
	2110		
14		0023	0.8F
Su	0329	0653	1.0E
	1024	1319	0.7F
	1628	1922	0.7E
	2218		
15		0123	0.7F
M	0418	0742	0.9E
	1104	1407	0.8F
	1722	2019	0.7E
	2326		
16		0220	0.6F
Tu	0506	0827	0.8E
	1143	1456	0.8F
	1816	2121	0.7E
17	0035	0314	0.5F
W	0555	0915	0.7E
	1222	1545	0.8F
	1908	2216	0.7E
18	0147	0413	0.4F
Th	0644	1002	0.6E
	1302	1631	0.8F
	2000	2315	0.7E
19	0259	0514	0.3F
F	0736	1051	0.5E
	1342	1723	0.8F
	2051		
20		0014	0.7E
Sa	0409	0615	0.3F
	0833	1141	0.4E
	1424	1810	0.8F
	2140		
21		0108	0.8E
Su		0716	*
		1230	0.4E
	1507	1901	0.7F
	2227		
22		0201	0.8E
M		0818	*
		1325	0.3E
	1553	1947	0.7F
	2312		
23		0250	0.8E
Tu	0659	0913	0.3F
	1147	1422	0.3E
	1643	2033	0.7F
	2355		
24		0335	0.8E
W	0740	1002	0.3F
	1246	1516	0.3E
	1735	2122	0.7F
25	0037	0416	0.8E
Th	0816	1045	0.4F
	1338	1605	0.3E
	1828	2205	0.6F
26	0117	0457	0.8E
F	0848	1126	0.4F
	1422	1654	0.3E
	1921	2250	0.6F
27	0156	0531	0.8E
Sa	0917	1201	0.5F
	1502	1740	0.4E
	2015	2334	0.6F
28	0235	0608	0.8E
Su	0944	1235	0.5F
	1539	1823	0.4E
	2109		
29		0017	0.5F
M	0313	0641	0.7E
	1010	1306	0.6F
	1616	1909	0.5E
	2205		
30		0100	0.5F
Tu	0351	0717	0.7E
	1036	1341	0.6F
	1654	1954	0.6E
	2302		
31		0147	0.5F
W	0430	0752	0.7E
	1103	1417	0.7F
	1735	2042	0.6E

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0001	0234	0.4F
Th	0510	0827	0.6E
	1132	1456	0.7F
	1819	2131	0.7E
2	0104	0327	0.3F
F	0553	0910	0.6E
	1206	1541	0.8F
	1907	2225	0.7E
3	0210	0423	0.3F
Sa	0642	0955	0.5E
	1246	1626	0.8F
	1958	2321	0.8E
4	0317	0523	0.3F
Su	0738	1048	0.5E
	1334	1721	0.9F
	2053		
5		0018	0.8E
M	0421	0629	0.3F
	0843	1150	0.5E
	1429	1819	0.9F
	2150		
6		0118	0.9E
Tu	0520	0732	0.3F
	0955	1253	0.4E
	1533	1920	0.9F
	2248		
7		0218	0.9E
W	0613	0834	0.4F
	1106	1402	0.5E
	1641	2021	0.9F
	2345		
8		0315	0.9E
Th	0701	0931	0.5F
	1214	1507	0.5E
	1752	2123	0.9F
9	0040	0404	0.9E
F	0745	1025	0.6F
	1316	1611	0.6E
	1901	2225	0.8F
10	0133	0456	0.9E
Sa	0826	1115	0.7F
	1414	1713	0.7E
	2008	2320	0.8F
11	0224	0545	0.9E
Su	0907	1204	0.7F
	1508	1809	0.7E
	2113		
12		0015	0.7F
M	0313	0631	0.9E
	0946	1251	0.8F
	1600	1904	0.8E
	2216		
13		0109	0.7F
Tu	0401	0717	0.8E
	1025	1335	0.8F
	1651	1959	0.8E
	2318		
14		0200	0.6F
W	0447	0759	0.7E
	1103	1423	0.8F
	1741	2052	0.8E
15	0021	0255	0.5F
Th	0533	0842	0.6E
	1142	1508	0.8F
	1830	2145	0.8E
16	0123	0346	0.4F
F	0620	0930	0.5E
	1222	1555	0.8F
	1919	2239	0.7E
17	0227	0445	0.3F
Sa	0711	1019	0.5E
	1303	1641	0.7F
	2008	2336	0.7E
18	0329	0541	0.3F
Su	0808	1107	0.4E
	1348	1733	0.7F
	2057		
19		0027	0.7E
M	0429	0644	0.3F
	0911	1203	0.3E
	1437	1822	0.7F
	2145		
20		0118	0.7E
Tu	0522	0739	0.3F
	1016	1259	0.3E
	1532	1913	0.6F
	2233		
21		0209	0.7E
W	0608	0834	0.3F
	1118	1359	0.3E
	1630	2006	0.6F
	2320		
22		0257	0.7E
Th	0648	0923	0.4F
	1212	1454	0.3E
	1729	2057	0.6F
23	0006	0340	0.7E
F	0723	1005	0.4F
	1259	1545	0.4E
	1827	2145	0.6F
24	0051	0420	0.7E
Sa	0755	1040	0.5F
	1340	1632	0.4E
	1923	2233	0.6F
25	0133	0458	0.7E
Su	0824	1115	0.5F
	1418	1715	0.5E
	2016	2319	0.5F
26	0215	0534	0.7E
M	0851	1150	0.6F
	1456	1801	0.6E
	2109		
27		0002	0.5F
Tu	0255	0609	0.6E
	0918	1226	0.7F
	1533	1843	0.7E
	2201		
28		0047	0.5F
W	0334	0644	0.6E
	0946	1259	0.7F
	1613	1926	0.7E
	2255		
29		0131	0.5F
Th	0414	0721	0.6E
	1016	1340	0.8F
	1656	2015	0.8E
	2350		
30		0220	0.4F
F	0456	0802	0.5E
	1051	1421	0.8F
	1742	2106	0.8E
31	0047	0309	0.4F
Sa	0541	0845	0.5E
	1132	1508	0.8F
	1833	2155	0.8E

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

VIEQUES PASSAGE, PUERTO RICO, 1991

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	*		
Su	0146	0406	0.3F
	0633	0933	0.5E
	1220	1600	0.8F
	1927	2253	0.8E
2	0246	0506	0.3F
M	0732	1036	0.5E
	1317	1701	0.8F
	2025	2352	0.8E
3	0345	0605	0.3F
Tu	0839	1139	0.5E
	1423	1803	0.8F
	2126		
4		0053	0.8E
W	0441	0712	0.4F
	0949	1247	0.5E
	1536	1907	0.8F
	2227		
5		0153	0.8E
Th	0532	0809	0.5F
	1057	1358	0.5E
	1651	2015	0.7F
	2327		
6		0247	0.8E
F	0619	0904	0.6F
	1200	1504	0.6E
	1804	2117	0.7F
7	0024	0342	0.8E
Sa	0702	0959	0.7F
	1257	1605	0.7E
	1912	2216	0.7F
8	0118	0433	0.8E
Su	0744	1048	0.7F
	1351	1701	0.8E
	2016	2311	0.7F
9	0209	0520	0.8E
M	0824	1133	0.8F
	1441	1756	0.8E
	2115		
10		0005	0.6F
Tu	0257	0602	0.7E
	0903	1218	0.8F
	1529	1845	0.9E
	2212		
11		0052	0.6F
W	0344	0646	0.7E
	0942	1303	0.8F
	1616	1934	0.9E
	2307		
12		0143	0.5F
Th	0429	0729	0.6E
	1020	1346	0.8F
	1701	2024	0.8E
13	0001	0234	0.5F
F	0515	0810	0.5E
	1100	1429	0.8F
	1746	2111	0.8E
14	0055	0325	0.4F
Sa	0603	0859	0.5E
	1142	1513	0.7F
	1832	2200	0.8E
15	0148	0413	0.4F
Su	0655	0946	0.4E
	1227	1559	0.7F
	1918	2248	0.7E
16	0241	0509	0.3F
M	0752	1039	0.3E
	1317	1648	0.6F
	2006	2339	0.7E
17	0332	0603	0.3F
Tu	0852	1139	0.3E
	1415	1745	0.5F
	2056		
18		0031	0.7E
W	0420	0700	0.4F
	0951	1237	0.3E
	1518	1841	0.5F
	2148		
19		0123	0.7E
Th	0503	0748	0.4F
	1046	1334	0.4E
	1624	1937	0.5F
	2241		
20		0209	0.6E
F	0543	0835	0.4F
	1134	1431	0.4E
	1727	2036	0.5F
	2332		
21		0255	0.6E
Sa	0619	0918	0.5F
	1217	1523	0.5E
	1827	2126	0.5F
22	0021	0338	0.6E
Su	0651	0955	0.6F
	1257	1606	0.6E
	1922	2215	0.5F
23	0108	0419	0.6E
M	0722	1030	0.6F
	1336	1655	0.7E
	2015	2259	0.5F
24	0153	0455	0.6E
Tu	0752	1106	0.7F
	1415	1736	0.8E
	2106	2347	0.5F
25	0236	0530	0.5E
W	0823	1145	0.7F
	1455	1819	0.8E
	2155		
26		0033	0.5F
Th	0318	0612	0.5E
	0856	1224	0.8F
	1537	1902	0.9E
	2245		
27		0119	0.5F
F	0402	0655	0.5E
	0934	1306	0.8F
	1623	1951	0.9E
	2336		
28		0205	0.4F
Sa	0448	0738	0.5E
	1018	1355	0.8F
	1711	2040	0.9E
29	0028	0255	0.4F
Su	0538	0827	0.5E
	1109	1444	0.8F
	1803	2133	0.9E
30	0121	0350	0.4F
M	0634	0927	0.5E
	1207	1541	0.8F
	1859	2227	0.8E

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0214	0448	0.4F
Tu	0736	1030	0.5E
	1315	1642	0.7F
	1959	2327	0.8E
2	0307	0546	0.5F
W	0841	1141	0.5E
	1431	1752	0.7F
	2102		
3		0027	0.8E
Th	0357	0648	0.5F
	0946	1250	0.6E
	1550	1900	0.6F
	2205		
4		0127	0.7E
F	0446	0744	0.6F
	1048	1356	0.6E
	1707	2009	0.6F
	2307		
5		0222	0.7E
Sa	0532	0839	0.7F
	1145	1458	0.7E
	1818	2112	0.6F
6	0006	0313	0.7E
Su	0616	0928	0.7F
	1238	1554	0.8E
	1922	2208	0.6F
7	0101	0401	0.6E
M	0657	1017	0.8F
	1327	1650	0.9E
	2021	2303	0.6F
8	0152	0448	0.6E
Tu	0738	1100	0.8F
	1413	1737	0.9E
	2115	2354	0.5F
9	0241	0531	0.5E
W	0817	1143	0.8F
	1457	1825	0.9E
	2206		
10		0039	0.5F
Th	0328	0617	0.5E
	0856	1226	0.8F
	1540	1908	0.9E
	2253		
11		0127	0.5F
F	0415	0701	0.5E
	0936	1307	0.8F
	1621	1951	0.9E
	2339		
12		0210	0.4F
Sa	0502	0744	0.4E
	1018	1348	0.7F
	1702	2033	0.8E
13	0024	0259	0.4F
Su	0551	0832	0.4E
	1103	1431	0.6F
	1743	2117	0.8E
14	0108	0347	0.4F
M	0643	0921	0.3E
	1154	1520	0.6F
	1827	2203	0.7E
15	0151	0435	0.4F
Tu	0737	1015	0.3E
	1252	1609	0.5F
	1914	2251	0.7E
16	0234	0524	0.4F
W	0831	1114	0.3E
	1357	1707	0.4F
	2004	2340	0.6E
17	0316	0612	0.5F
Th	0923	1212	0.4E
	1507	1806	0.4F
	2058		
18		0029	0.6E
F	0355	0701	0.5F
	1010	1309	0.4E
	1617	1908	0.4F
	2154		
19		0117	0.6E
Sa	0433	0744	0.6F
	1054	1403	0.5E
	1723	2004	0.4F
	2250		
20		0203	0.5E
Su	0508	0825	0.6F
	1136	1453	0.5E
	1823	2102	0.4F
	2345		
21		0251	0.5E
M	0543	0903	0.7F
	1217	1542	0.7E
	1918	2152	0.4F
22	0037	0333	0.5E
Tu	0617	0944	0.7F
	1258	1624	0.8E
	2009	2242	0.4F
23	0126	0416	0.5E
W	0653	1025	0.8F
	1340	1712	0.9E
	2058	2328	0.5F
24	0215	0458	0.5E
Th	0732	1107	0.8F
	1423	1755	1.0E
	2145		
25		0017	0.5F
F	0302	0543	0.5E
	0814	1152	0.9F
	1509	1841	1.0E
	2233		
26		0103	0.5F
Sa	0351	0630	0.5E
	0903	1241	0.9F
	1556	1930	1.0E
	2319		
27		0151	0.5F
Su	0442	0725	0.5E
	0956	1330	0.8F
	1646	2018	1.0E
28	0006	0245	0.5F
M	0537	0821	0.5E
	1058	1427	0.8F
	1739	2110	0.9E
29	0054	0336	0.5F
Tu	0636	0924	0.5E
	1206	1527	0.7F
	1835	2204	0.9E
30	0141	0431	0.6F
W	0736	1030	0.5E
	1322	1632	0.6F
	1934	2302	0.8E
31	0228	0527	0.6F
Th	0838	1139	0.6E
	1444	1740	0.5F
	2036	2359	0.7E

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0315	0623	0.7F
F	0938	1247	0.6E
	1604	1851	0.5F
	2139		
2		0054	0.6E
Sa	0400	0717	0.7F
	1034	1350	0.7E
	1720	1957	0.5F
	2242		
3		0150	0.6E
Su	0445	0812	0.8F
	1127	1451	0.8E
	1828	2100	0.4F
	2343		
4		0239	0.5E
M	0528	0858	0.8F
	1216	1541	0.9E
	1929	2157	0.4F
5	0041	0330	0.5E
Tu	0610	0944	0.8F
	1302	1630	0.9E
	2022	2249	0.4F
6	0135	0417	0.4E
W	0651	1030	0.8F
	1345	1717	0.9E
	2111	2340	0.4F
7	0226	0505	0.4E
Th	0732	1111	0.8F
	1426	1802	0.9E
	2155		
8		0025	0.4F
F	0315	0548	0.4E
	0813	1150	0.8F
	1505	1842	0.9E
	2236		
9		0108	0.4F
Sa	0403	0634	0.3E
	0855	1230	0.7F
	1543	1920	0.9E
	2315		
10		0151	0.4F
Su	0451	0719	0.3E
	0941	1311	0.6F
	1621	2001	0.9E
	2352		
11		0234	0.5F
M	0539	0806	0.3E
	1031	1354	0.6F
	1700	2040	0.8E
12	0028	0316	0.5F
Tu	0628	0857	0.3E
	1127	1442	0.5F
	1741	2121	0.8E
13	0104	0358	0.5F
W	0715	0951	0.3E
	1230	1537	0.4F
	1825	2204	0.7E
14	0140	0444	0.5F
Th	0802	1049	0.4E
	1340	1632	0.4F
	1913	2250	0.6E
15	0216	0527	0.6F
F	0847	1144	0.4E
	1453	1731	0.3F
	2006	2336	0.6E
16	0251	0611	0.6F
Sa	0932	1238	0.5E
	1605	1833	0.3F
	2103		
17		0023	0.5E
Su	0325	0652	0.7F
	1015	1332	0.6E
	1712	1933	0.3F
	2202		
18		0110	0.5E
M	0401	0736	0.7F
	1058	1425	0.7E
	1812	2031	0.3F
	2302		
19		0200	0.4E
Tu	0439	0820	0.8F
	1142	1510	0.8E
	1907	2127	0.4F
20	0000	0248	0.4E
W	0520	0904	0.8F
	1226	1558	0.9E
	1957	2219	0.4F
21	0056	0336	0.4E
Th	0604	0949	0.9F
	1311	1646	1.0E
	2045	2306	0.4F
22	0150	0427	0.4E
F	0653	1038	0.9F
	1358	1734	1.1E
	2130		
23		0000	0.5F
Sa	0244	0521	0.4E
	0747	1129	0.9F
	1446	1821	1.1E
	2214		
24		0049	0.5F
Su	0338	0618	0.5E
	0845	1222	0.9F
	1535	1909	1.1E
	2257		
25		0137	0.6F
M	0434	0713	0.5E
	0948	1318	0.8F
	1626	1959	1.0E
	2340		
26		0227	0.6F
Tu	0531	0814	0.5E
	1056	1413	0.7F
	1718	2048	0.9E
27	0024	0317	0.7F
W	0629	0919	0.6E
	1210	1516	0.6F
	1812	2142	0.9E
28	0107	0413	0.7F
Th	0727	1024	0.6E
	1329	1620	0.5F
	1909	2234	0.8E
29	0150	0505	0.8F
F	0825	1131	0.7E
	1450	1728	0.4F
	2008	2327	0.7E
30	0234	0557	0.8F
Sa	0921	1236	0.7E
	1610	1837	0.4F
	2109		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0023	0.6E
Su	0317	0651	0.8F
	1015	1338	0.8E
	1724	1944	0.3F
	2213		
2		0117	0.5E
M	0400	0740	0.8F
	1106	1433	0.8E
	1830	2046	0.3F
	2316		
3		0206	0.4E
Tu	0444	0827	0.8F
	1153	1526	0.9E
	1927	2143	0.3F
4	0017	0259	0.4E
W	0526	0916	0.8F
	1237	1611	0.9E
	2016	2238	0.4F
5	0115	0350	0.3E
Th	0609	0959	0.8F
	1318	1656	0.9E
	2100	2323	0.4F
6	0210	0436	0.3E
F	0653	1041	0.8F
	1357	1738	0.9E
	2138		
7		0006	0.4F
Sa	0301	0522	0.3E
	0738	1122	0.7F
	1434	1815	0.9E
	2213		
8		0050	0.4F
Su	0349	0611	0.3E
	0825	1202	0.7F
	1510	1854	0.9E
	2246		
9		0129	0.5F
M	0434	0654	0.3E
	0915	1245	0.6F
	1547	1929	0.9E
	2318		
10		0206	0.5F
Tu	0518	0743	0.3E
	1009	1328	0.5F
	1624	2005	0.8E
	2349		
11		0243	0.5F
W	0600	0832	0.3E
	1108	1415	0.5F
	1703	2044	0.8E
12	0019	0322	0.6F
Th	0642	0924	0.4E
	1213	1504	0.4F
	1745	2123	0.7E
13	0049	0401	0.6F
F	0724	1012	0.4E
	1322	1559	0.3F
	1830	2204	0.6E
14	0120	0439	0.7F
Sa	0807	1110	0.5E
	1434	1657	0.3F
	1919	2247	0.6E
15	0152	0522	0.7F
Su	0851	1204	0.6E
	1545	1758	0.3F
	2013	2330	0.5E
16	0227	0605	0.8F
M	0936	1258	0.7E
		1859	*
17		0024	0.4E
Tu	0305	0651	0.8F
	1022	1353	0.8E
	1755	2000	0.3F
	2216		
18		0115	0.4E
W	0349	0740	0.9F
	1110	1444	0.9E
	1849	2059	0.3F
	2321		
19		0210	0.4E
Th	0438	0831	0.9F
	1159	1533	1.0E
	1938	2152	0.4F
20	0024	0307	0.4E
F	0533	0924	0.9F
	1248	1624	1.0E
	2023	2246	0.4F
21	0125	0407	0.4E
Sa	0632	1019	0.9F
	1338	1713	1.1E
	2106	2336	0.5F
22	0224	0504	0.5E
Su	0735	1115	0.9F
	1428	1801	1.1E
	2148		
23		0025	0.6F
M	0322	0604	0.5E
	0840	1208	0.9F
	1519	1850	1.1E
	2229		
24		0117	0.7F
Tu	0418	0704	0.6E
	0948	1305	0.8F
	1609	1938	1.0E
	2310		
25		0208	0.7F
W	0514	0807	0.6E
	1058	1404	0.7F
	1700	2027	0.9E
	2351		
26		0256	0.8F
Th	0611	0908	0.7E
	1212	1503	0.6F
	1752	2116	0.8E
27	0032	0346	0.8F
F	0707	1011	0.7E
	1328	1606	0.5F
	1845	2205	0.7E
28	0113	0437	0.8F
Sa	0802	1113	0.7E
	1445	1709	0.4F
	1940	2257	0.6E
29	0155	0529	0.8F
Su	0857	1216	0.8E
	1602	1817	0.3F
	2039	2349	0.5E
30	0238	0621	0.8F
M	0949	1313	0.8E
	1714	1922	0.3F
	2142		
31		0044	0.4E
Tu	0322	0710	0.8F
	1039	1412	0.8E
	1817	2025	0.3F
	2247		

Time meridian 60° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

TABLE 2.—CURRENT DIFFERENCES AND OTHER CONSTANTS AND ROTARY TIDAL CURRENTS

EXPLANATION OF TABLE

In this publication, reference stations are those for which daily predictions are listed in Table 1. Those stations appearing in Table 2 are called subordinate stations. The principal purpose of Table 2 is to present data that will enable one to determine the approximate times of minimum currents (slack waters) and the times and speeds of maximum currents at numerous subordinate stations on the Atlantic Coast of North America. By applying the specific corrections given in Table 2 to the predicted times and speeds of the current at the appropriate reference station, reasonable approximations of the current at the subordinate station may be compiled.

Locations and Depths

Because the latitude and longitude are listed according to the exactness recorded in the original survey records, the locations of the subordinate stations are presented in varying degrees of accuracy. Since a minute of latitude is nearly equivalent to a mile, a location given to the nearest minute may not indicate the exact position of the station. This should be remembered, especially in the case of a narrow stream, where the nearest minute of latitude or longitude may locate a station inland. In such cases, unless the description locates the station elsewhere, reference is made to the current in the center of the channel. In some instances, the charts may not present a convenient name for locating a station. In those cases, the position may be described by a bearing from some prominent place on the chart.

Although current measurements may have been recorded at various depths in the past, the data listed here for most of the subordinate stations are mean values determined to have been representative of the current at each location. For that reason, no specific current meter depths for those stations are given in Table 2. Beginning with the Boston Harbor tidal current survey in 1971, data for individual meter depths were published and subsequent new data may be presented in a similar manner.

Since most of the current data in Table 2 came from meters suspended from survey vessels or anchored buoys, the listed depths are those measured downward from the surface. Some later data have come from meters anchored at fixed depths from the bottom. Those meter positions were defined as depths below chart datum. Such defined depths in this and subsequent editions will be accompanied by the small letter "d".

Minimum Currents

The reader may note that at many locations the current may not diminish to a true slack water or zero speed stage. For that reason, the phrases, "minimum before flood" and "minimum before ebb" are used in Table 2 rather than "slack water" although either or both minimums may actually reach a zero speed value at some locations. Table 2 lists the average speeds and directions of the minimums.

Maximum Currents

Near the coast and in inland tidal waters, the current increases from minimum current (slack water) for a period of about 3 hours until the maximum speed or the strength of the current is reached. The speed then decreases for another period of about 3 hours when minimum current is again reached and the current begins a similar cycle in the opposite direction. The current that flows toward the coast or up a stream is known as the flood current; the opposite flow is known as the ebb current. Table 2 lists the average speeds and directions of the maximum floods and maximum ebbs. The directions are given in degrees, true, reading clockwise from 000° at north to 359° and are the directions toward which the current flow.

Time Differences and Speed Ratios

Table 2 contains mean time differences by which the reader can compile approximate times for the minimum and maximum current phases at the subordinate stations. Time differences for those phases should be applied to the corresponding phases at the reference station. It will be seen upon inspection that some subordinate stations exhibit either a double flood or a double ebb stag,: or both. Explanations of these stages can be found in the glossary located elsewhere in this publication. In those cases, a separate time difference is listed for each of the three flood (or ebb) phases and these should be applied only to the daily maximum flood (or ebb) phase at the reference station. The results obtained by the application of the time differences will be based upon the time meridian shown above the name of the subordinate station. Differences of time meridians between a subordinate station and its reference station have been accounted for and no further adjustment by the reader is needed. Summer or daylight saving time is not used in this publication.

The speed ratios are used to compile approximations of the daily current speeds at the subordinate stations and refer only to the maximum floods and ebbs. No attempt is made to predict the speeds of the minimum currents. Normally, these ratios should be applied to the corresponding maximum current phases at the reference station. As mentioned above, however, some subordinate stations may exhibit either a double flood or a double ebb or both. As with the time differences, separate ratios are listed for each of the three flood (or ebb phases) and should be applied only to the daily maximum flood (or ebb) speed at the reference station. It should be noted that although the speed of a given current phase at a subordinate station is obtained by reference to the corresponding phase at the reference station, the directions of the current at the two places may differ considerably. Table 2 lists the average directions of the various current phases at the subordinate stations.

Rotary Tidal Currents

Pages 195 and 196 contain listings of data for those stations which exhibited rotary current patterns. Briefly, a rotary current can be described as one which flows continually with the direction of flow changing through all points of the compass during the tidal period. A more complete description can be found in the glossary located elsewhere in this publication. The average speeds and directions are listed in half-hour increments as referred to the predicted times of a particular current phase at a reference station in Table 1. The Moon, at times of new, full, or perigee may increase speeds 15 to 20 percent above average; or 30 to 40 percent if perigee occurs at or near the time of new or full Moon. Conversely, the Moon at times of quadrature or apogee may decrease the speeds 15 to 20 percent or 30 to 40 percent if they occur together. Near average speeds may be expected when apogee occurs near or at new or full Moon, or when perigee occurs at or near quadrature. The directions of the currents are given in degrees true, reading clockwise from 000° at north to 359° and are the directions toward which the water is flowing.

Example of the Use of Table 2

Suppose we wish to calculate the times of the minimum currents and the times and speeds of the maximum currents on a particular morning at the location listed as Winthrop Head, 1.1 nautical miles east of. From Table 2 we learn that the reference station is Boston Harbor whose morning currents are listed below. Currents for Winthrop Head can be approximated by using the Table 2 corrections as indicated.

	Minimum before flood	*Maximum flood*		*Minimum before ebb*	*Maximum ebb*	
	h.m.	*h.m.*	*kn*	*h.m.*	*h.m.*	*kn*
Boston Harbor	0052	0419	1.2	0645	1109	1.4
Table 2 corrections	−0112	+0019	×0.4 ratio	+0031	−0146	×0.3 ratio
Winthrop Head	2340*	0438	0.5	0716	0923	0.4

* this minimum current phase is seen to occur just before midnight of the previous day.

Table 2 states that the average speeds and directions of the minimums before flood and ebb are 0.3 knots at 103° and 0.2 knots at 297°; respectively. The average directions of the maximum flood and maximum ebb are 205° and 019°; respectively.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	BAY OF FUNDY Time meridian, 60°W				on BAY OF FUNDY ENTRANCE, p.4									
1	Brazil Rock, 6 miles east of.....		43 22	65 18	-2 02	-2 00	-1 56	-2 00	0.4	0.4	0.0 - -	1.0 275	0.0 - -	1.0 050
6	Cape Sable, 3 miles south of.....		43 20	65 38	-3 02	-2 10	-1 21	-2 10	1.0	0.8	0.0 - -	2.2 275	0.0 - -	2.0 095
11	Cape Sable, 12 miles south of.....		43 11	65 37	-1 12	-1 00	-0 46	-1 00	0.7	0.7	0.0 - -	1.7 285	0.0 - -	1.6 090
16	Blonde Rock, 5 miles south of.....		43 15	65 59	-1 02	-0 50	-0 36	-0 50	0.9	0.8	0.0 - -	2.0 310	0.0 - -	2.0 125
21	Seal Island, 13 miles southwest of.....		43 16	66 15	-0 17	+0 10	+0 39	+0 10	1.1	0.7	0.0 - -	2.6 325	0.0 - -	1.6 140
26	Cape Fourchu, 17 miles southwest of.....		43 34	66 24	+0 38	+0 45	+0 44	+0 45	0.5	0.5	0.0 - -	1.2 355	0.0 - -	1.2 145
31	Cape Fourchu, 4 miles west of.....		43 47	66 15	-0 12	0 00	+0 09	0 00	0.9	0.7	0.0 - -	2.0 000	0.0 - -	1.7 175
36	Lurcher Shoal, 6 miles east of.....		43 52	66 21	+0 08	+0 30	+0 39	+0 30	0.9	0.8	0.0 - -	2.0 355	0.0 - -	1.8 175
41	Lurcher Shoal, 10 miles west of.....		43 46	66 42	+0 23	+0 30	-0 34	+0 30	0.6	0.7	0.0 - -	1.4 000	0.0 - -	1.6 160
46	Lurcher Shoal, 10 miles northwest of....		43 59	66 37	-0 02	+0 30	+0 49	+0 30	0.8	0.5	0.0 - -	1.8 005	0.0 - -	1.2 175
51	Brier Island, 5 miles west of.....		44 13	66 30	+0 43	+0 50	+0 54	+0 50	1.2	1.0	0.0 - -	2.7 005	0.0 - -	2.5 185
56	Brier Island, 15 miles west of.....		44 17	66 44	-0 42	-0 15	+0 14	-0 15	0.6	0.5	0.0 - -	1.4 060	0.0 - -	1.2 250
61	Gannet Rock, 5 miles southeast of.....		44 29	66 41	+0 38	+0 30	+0 09	+0 30	1.1	1.6	0.0 - -	2.6 040	0.0 - -	3.9 230
66	Boars Head, 10 miles northwest of.....		44 31	66 23	+0 48	+0 55	+0 59	+0 55	0.8	0.8	0.0 - -	1.9 020	0.0 - -	2.0 205
71	Prim Point, 20 miles west of.....		44 44	66 15	+0 38	+0 45	+0 54	+0 45	0.7	0.6	0.0 - -	1.6 040	0.0 - -	1.4 235
76	Cape Spencer, 14 miles south of.....		44 58	65 57	+0 51	+0 55	+0 57	+0 55	0.7	0.7	0.0 - -	1.7 050	0.0 - -	1.6 245
81	BAY OF FUNDY ENTRANCE.....		44 45.2	66 55.9	Daily predictions						0.0 - -	2.3 032	0.0 - -	2.4 212
	MAINE COAST Time meridian, 75°W													
86	Eastport, Friar Roads.....		44 54	66 59	0 00	0 00	0 00	0 00	1.2	1.2	0.0 - -	3.0 210	0.0 - -	3.0 040
91	Western Passage, off Kendall Head.....		44 55.9	67 00.0	+0 27	+0 11	+0 13	+0 40	1.4	1.3	0.0 - -	3.2 319	0.0 - -	3.1 142
96	Western Passage, off Frost Ledge.....		44 57.9	67 01.9	+0 33	+0 04	-0 16	+0 15	0.9	0.7	0.0 - -	2.1 330	0.0 - -	1.7 150
101	Pond Point, 7.6 miles SSE of.....		44 20.1	67 30.2	+0 13	-0 20	-1 33	-0 05	0.2	0.5	0.0 - -	0.5 015	0.0 - -	1.2 215
106	Moosabec Reach, east end.....		44 31.71	67 34.36	-2 45	-3 08	-3 13	-3 39	0.4	0.4	0.0 - -	1.0 110	0.0 - -	1.0 258
111	Moosabec Reach, west end.....		44 31.25	67 39.00	-1 43	-1 43	-2 00	-1 44	0.4	0.5	0.0 - -	1.0 092	0.0 - -	1.2 253
116	Bar Harbor, 1.2 miles east of <1>.....		44 23.0	68 10.0	- - -	+0 30	- - -	+0 48	0.1	0.3	0.0 - -	0.2 328	0.0 - -	0.7 148
121	Casco Passage, east end, Blue Hill Bay..		44 11.7	68 27.9	-1 49	-1 44	-1 02	-1 58	0.3	0.3	0.0 - -	0.7 086	0.0 - -	0.7 284
126	Hat Island, SE of, Jericho Bay.....		44 08.0	68 29.7	-1 02	-0 35	-0 50	-1 20	0.4	0.5	0.0 - -	0.9 318	0.0 - -	1.3 124
131	Clam I., NW of, Deer I. Thorofare.....	14	44 09.87	68 36.23	-2 14	-0 15	-0 57	-2 46	0.1	0.1	0.0 - -	0.2 004	0.0 - -	0.2 199
136	Grog Island, E of, Deer Island Thorofare	14	44 09.72	68 37.23	-2 16	-2 22	-2 27	-3 31	0.1	0.1	0.0 - -	0.2 020	0.1 302	0.3 235
141	Russ Island, N of, Deer Island Thorofare	14	44 09.18	68 38.78	-2 12	-2 10	-2 29	-3 16	0.2	0.2	0.0 - -	0.4 074	0.0 - -	0.6 265
146	Crotch Island-Moose Island, between <58>	14	44 08.85	68 40.58	Currents are unidirectional									
151	Isle au Haut, 0.8 mile E of Rich's Pt...	11	44 05	68 35	-0 53	-1 07	-1 07	-1 19	0.6	0.6	0.0 - -	1.4 336	0.0 - -	1.5 139
	East Penobscot Bay													
156	Mark Island, north of.....	14	44 08.20	68 42.17	-0 18	-1 01	-2 27	-0 22	0.1	0.2	0.0 - -	0.3 013	0.1 300	0.4 164
161	Widow Island-Stimpson Island, between	14	44 07.95	68 49.50	-0 43	-0 49	+0 04	-1 08	0.3	0.2	0.0 - -	0.6 302	0.0 - -	0.5 118
166	Eagle Island, 0.4 nautical mile S of.	14	44 11.63	68 46.93	-0 18	-0 55	-2 20	-1 46	0.4	0.4	0.2 030	0.9 336	0.3 050	1.0 147
171	Burnt Island-Oak Island, between.....	14	44 11.47	68 49.13	-0 18	-1 19	-2 22	-0 57	0.3	0.5	0.1 347	0.7 290	0.0 - -	1.3 098
176	Butter I., 0.3 nautical mile SE of...	14	44 13.33	68 46.67	-2 43	-2 14	-0 25	-1 36	0.1	0.3	0.0 - -	0.3 050	0.1 150	0.6 194
						-1 31			0.1			0.2 032		
181	Bradbury Island, ESE of.....					-0 23			0.2			0.4 077		
186	Compass Island, 0.4 nmi. ENE of.....	14	44 14.03	68 44.07	+0 11	-0 17	-0 53	-0 56	0.2	0.3	0.2 305	0.5 025	0.1 304	0.7 225
191	Scrag Island, 0.3 nautical mile SW of	14	44 13.00	68 51.33	-1 44	-1 22	-1 25	-1 01	0.1	0.1	0.2 092	0.3 015	0.0 - -	0.3 175
196	Great Spruce Head Island, west of....	14	44 13.33	68 50.62	-0 45	-0 27	-0 55	-0 55	0.2	0.1	0.0 - -	0.4 010	0.1 078	0.3 197
201	Horse Head Island, 0.2 nmi. ENE of...	14	44 14.30	68 50.18	-1 14	-0 54	-0 26	-1 19	0.2	0.1	0.0 - -	0.3 003	0.0 - -	0.3 174
		14	44 15.07	68 50.67	See Rotary tidal currents, table 2.									

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb		
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	MAINE COAST Time meridian, 75°W				on BAY OF FUNDY ENTRANCE, p. 4													
	East Penobscot Bay																	
206	Pickering Island, south of	14	44 15.63	68 45.38	-2 45	-1 37	-1 56	-2 37	0.2	0.2	0.2	203	0.6	300	0.3	201	0.6	150
211	Little Eaton Island, NNE of	14	44 16.45	68 43.87	-0 43	+0 12	+0 02	-0 19	0.2	0.1	0.0	- -	0.4	300	0.2	224	0.3	106
216	Pickering Island, north of	14	44 16.48	68 45.28	See Rotary tidal currents, table 2.													
221	Hog Island, ESE of	14	44 16.52	68 46.87	-0 13	-0 02	-0 33	-0 51	0.1	0.2	0.0	- -	0.3	024	0.2	105	0.5	180
226	Little Deer I.-Sheep I., between	14	44 16.78	68 43.43	-0 13	-0 37	+0 33	-0 52	0.2	0.2	0.1	231	0.6	310	0.0	- -	0.6	124
231	Swains Ledge, WSW of	14	44 16.97	68 45.28	See Rotary tidal currents, table 2.													
236	Swains Ledge, 0.3 nautical mile SW of	14	44 17.13	68 43.87	-0 46	-0 22	-0 55	-1 07	0.2	0.2	0.0	- -	0.5	358	0.0	- -	0.4	170
241	Pond Island-Western Island, between	14	44 17.58	68 49.00	-1 44	-1 13	-1 56	-1 34	0.2	0.2	0.0	- -	0.4	356	0.0	- -	0.6	172
246	Birch Island, northwest of	14	44 18.17	68 45.35	-1 44	-1 31	-0 56	-1 30	0.1	0.1	0.0	- -	0.3	022	0.0	- -	0.2	200
251	Pond Island, north of	14	44 18.17	68 48.60	Current weak and variable													
256	Howard Ledges, ENE of, Eggemoggin Rh.	14	44 18.28	68 42.63	Current weak and variable													
261	Howard Ledges, NE of, Eggemoggin Rh.	14	44 18.30	68 42.08	Current weak and variable													
266	Spectacle Island, 0.2 nmi. NW of	14	44 18.47	68 47.33	Current weak and variable													
271	Pumpkin Island, north of	14	44 18.80	68 44.42	-3 14	-2 10	-1 54	-2 43	0.1	0.1	0.0	- -	0.3	290	0.1	340	0.3	090
276	Isleboro Harbor, Penobscot Bay	14	44 18.86	68 53.35	See Rotary tidal currents, table 2.													
281	Thrum Cap I., E of, East Penobscot Bay	14	44 19.40	68 44.80	Current weak and variable													
286	Turtle Head Pt., ESE of, Penobscot Bay	15	44 22.57	68 51.28	-1 00	-1 04	-0 36	-1 44	0.3	0.3	0.0	- -	0.7	338	0.0	- -	0.8	171
	...do	40	44 22.57	68 51.28	-1 19	-1 12	-1 31	-1 14	0.2	0.3	0.0	- -	0.4	319	0.0	- -	0.8	155
291	Castine Harbor <59>	15	44 22.75	68 48.62	+0 11	-0 24	-0 25	-0 41	0.5	0.6	0.0	- -	1.2	075	0.0	- -	1.4	252
	...do	40	44 22.75	68 48.62	-1 01	-0 47	-0 33	-1 09	0.6	0.5	0.0	- -	1.4	087	0.0	- -	1.2	238
	...do	60	44 22.75	68 48.62	-1 47	-0 38	-0 47	-1 30	0.7	0.4	0.0	- -	1.5	017	0.0	- -	1.0	199
296	Dice Head, west of, Penobscot Bay	15	44 22.77	68 50.72	-2 16	-1 17	-1 27	-1 30	0.2	0.2	0.0	- -	0.4	028	0.0	- -	0.5	198
	...do	58	44 22.77	68 50.72	-0 33	-0 33	-0 35	-0 08	0.2	0.2	0.0	- -	0.5	334	0.0	- -	0.5	178
	...do	96	44 22.77	68 50.72	+0 13	-0 26	-0 26	-0 18	0.3	0.2	0.0	- -	0.6	312	0.0	- -	0.6	135
301	Sears Island, S of, Penobscot Bay <62>	15	44 25.12	68 53.25	- - -	+0 10	- - -	-0 15	0.2	0.2	0.0	- -	0.4	012	0.0	- -	0.4	237
	...do	40	44 25.12	68 53.25	- - -	-1 44	- - -	-0 57	0.2	0.2	0.0	- -	0.4	080	0.0	- -	0.4	270
306	Jones Point, Bagaduce River <60>	15	44 25.55	68 45.50	-0 37	+0 03	-0 39	-0 21	1.8	1.8	0.0	- -	4.2	053	0.0	- -	4.2	237
311	Fort Point, Cape Jellison, Pen. Bay <60>	15	44 27.95	68 47.73	-0 08	-0 15	-0 15	-0 07	0.4	0.4	0.0	- -	1.0	003	0.0	- -	1.0	166
	...do	40	44 27.95	68 47.73	-2 07	-0 19	-0 30	-0 48	0.5	0.3	0.0	- -	1.1	356	0.0	- -	0.7	222
	...do	45	44 27.83	68 47.80	-2 31	-0 43	-0 22	-1 09	0.4	0.3	0.0	- -	0.9	006	0.0	- -	0.6	206
316	Verona Island, west of, Pen. River <61>	15	44 31.73	68 48.30	+1 06	-0 01	-1 32	-0 23	0.6	1.5	0.0	- -	1.5	339	0.0	- -	3.6	176
	...do	35	44 31.73	68 48.30	-1 29	-0 20	-1 14	-0 16	0.8	1.2	0.0	- -	1.9	338	0.0	- -	3.0	176
	...do	60	44 31.73	68 48.30	-2 50	-4 17	-1 21	-3 47	0.6	0.2	0.0	- -	1.3	322	0.0	- -	0.6	182
						-2 35		-2 28	0.4	0.0			0.8	327			0.0	192
						-0 25		-0 39	0.9	0.4			2.0	319			1.0	173
321	Verona I., N of, Easter ch., Pen. R <61>	10	44 34.07	68 46.87	+1 54	+0 13	-1 54	-3 53	0.3	0.5	0.0	- -	0.7	273	0.0	- -	1.1	115
								-2 47		0.3							0.6	105
								-0 24		0.8							1.8	116
326	Bucksport, Penobscot River <61>	15	44 34.27	68 48.38	+0 42	+0 09	-1 26	-0 19	0.7	1.1	0.0	- -	1.6	275	0.0	- -	2.6	099
	...do	45	44 34.27	68 48.38	-0 13	-0 20	-1 39	-0 20	0.8	1.0	0.0	- -	2.0	281	0.0	- -	2.5	098
331	Winterport, Penobscot Bay <60>	15	44 37.88	68 50.52	-1 05	+0 04	-0 56	-3 06	0.8	0.3	0.0	- -	1.9	007	0.0	- -	0.7	188
								-2 01		0.0							0.0	193
								+0 04		0.9							2.1	188

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	MAINE COAST Time meridian, 75°W				on BAY OF FUNDY ENTRANCE, p.4									
336	Oak Point, Penobscot River <60>	15	44 40.10	68 48.78	-0 19	-2 27	-0 39	-3 17	0.4	0.4	0.0 - -	0.8 038	0.0 - -	1.0 233
						-1 37		-2 14	0.2	0.3		0.5 039		0.7 225
	...do	35	44 40.10	68 48.78	-1 17	+0 22	-0 59	+0 24	0.7	0.8		1.5 026		1.8 219
						-3 05		-3 21	0.4	0.3	0.0 - -	0.8 318	0.0 - -	0.7 244
341	Snub Point, Penobscot River <60>	15	44 42.27	68 50.40	-0 11	-1 54	-0 50	-1 55	0.2	0.0		0.4 309		0.1 247
						+0 16		+0 08	0.7	0.7		1.6 337		1.7 258
						-2 18		-3 07	0.2	0.6	0.0 - -	0.6 310	0.0 - -	1.3 136
						-1 31		-1 47	0.1	0.3		0.3 316		0.8 137
	West Penobscot Bay					+0 33		+0 11	0.6	0.8		1.4 319		2.0 139
346	Andrews Island, ESE of	15	43 59.65	69 00.78	-0 20	-0 44	-0 55	-1 14	0.2	0.3	0.0 - -	0.4 011	0.0 - -	0.7 155
	...do	75	43 59.65	69 00.78	-1 15	-0 56	-0 20	-1 07	0.3	0.2	0.0 - -	0.8 342	0.0 - -	0.6 188
351	Little Hurricane Island, southwest of	15	44 01.38	68 55.07	-0 05	-0 50	-0 18	-0 13	0.2	0.3	0.0 - -	0.5 331	0.0 - -	0.8 157
	...do	40	44 01.38	68 55.07	-0 18	-0 35	-0 27	-0 35	0.3	0.3	0.0 - -	0.6 300	0.0 - -	0.7 125
356	Heron Neck, Green Island	14	44 01.78	68 52.38	-1 47	-0 59	-0 58	-1 43	0.4	0.3	0.0 - -	1.0 344	0.2 218	0.6 165
361	The Reach, Norton Point	14	44 02 25	68 50.90	Current weak and variable									
	Isle au Haut Bay													
366	Triangle Ledge, SSE of	15	44 02.47	68 45.48	+0 14	-0 17	-0 26	-0 17	0.3	0.4	0.0 - -	0.7 354	0.0 - -	1.0 197
	...do	40	44 02.47	68 45.48	-1 20	-0 39	-0 32	-1 15	0.3	0.3	0.0 - -	0.6 317	0.0 - -	0.6 180
371	Moore Harbor, W of	15	44 02.53	68 41.55	0 00	+0 20	-0 16	-0 38	0.2	0.4	0.0 - -	0.4 344	0.1 063	1.1 135
	West Penobscot Bay													
	...do	75	44 02.53	68 41.55	-1 33	-0 55	-0 40	-0 54	0.3	0.2	0.0 - -	0.6 337	0.0 - -	0.5 165
	...do	120	44 02.53	68 41.55	-2 34	-0 43	-1 25	-1 19	0.3	0.1	0.0 - -	0.7 345	0.0 - -	0.3 215
376	The Reach, NNE of, Green Island	14	44 02.57	68 51.58	-3 23	-1 10	-1 55	-2 55	0.2	0.2	0.0 - -	0.4 284	0.1 150	0.4 111
381	White Islands, northeast of	14	44 03.00	68 54.40	-1 48	-2 18	-1 55	-2 08	0.2	0.2	0.2 262	0.4 322	0.3 258	0.6 165
386	Fisherman Island Passage	14	44 03.12	69 02.70	-2 44	-2 37	-2 26	-2 28	0.2	0.3	0.1 136	0.6 053	0.2 312	0.7 240
391	Crotch Island, east of	14	44 03.62	68 54.43	-0 49	-0 55	-1 21	-1 09	0.8	0.8	0.0 - -	1.9 343	0.0 - -	2.0 163
396	Laireys Island, south of	14	44 03.62	68 53.78	-0 48	-0 18	-0 51	-1 51	0.2	0.4	0.1 073	0.4 335	0.0 - -	0.9 155
401	Sheep Island	14	44 03.88	69 03.47	-2 44	-1 19	-1 57	-2 16	0.2	0.3	0.0 - -	0.5 023	0.0 - -	0.8 220
406	Leadbetter I., SSW of southern tip	14	44 04.07	68 53.90	-0 43	-0 39	-0 28	-1 32	0.6	0.5	0.0 - -	1.4 320	0.0 - -	1.3 126
411	Leadbetter Island, E of southern tip	14	44 04.15	68 53.62	-0 18	-0 43	+0 37	-0 13	0.2	0.2	0.1 214	0.4 360	0.1 105	0.6 175
416	Leadbetter Island, northwest tip of	14	44 05.03	68 54.67	-0 48	-0 41	-0 53	-1 12	0.3	0.4	0.0 - -	0.8 016	0.1 135	1.0 214
421	Dodge Point-Monroe Island, between	14	44 05.12	69 02.62	-3 43	-1 43	-2 55	-3 07	0.2	0.2	0.2 267	0.4 015	0.1 092	0.5 205
426	Dogfish Island, NNE of	14	44 05.52	68 54.80	-2 14	-2 27	-2 55	-2 06	0.2	0.2	0.1 244	0.5 325	0.0 045	0.4 147
431	Rockland Harbor Breakwater	14	44 06.13	69 04.67	-1 18	-0 30	-1 04	-0 39	0.1	0.2	0.1 215	0.3 315	0.0 220	0.4 097
436	Browshead, Vinalhaven Island, NNW of	14	44 06.78	68 54.73	-1 48	-1 22	-0 55	-0 56	0.1	0.1	0.1 325	0.2 016	0.2 100	0.2 221
441	Crabtree Pt., North Haven I., NNE of	14	44 06.90	68 55.42	-0 43	-1 18	-0 55	-1 01	0.1	0.1	0.2 287	0.3 003	0.1 150	0.2 228
446	Fox Island Thorofare	14	44 07.62	68 53.58	-3 13	-2 41	-3 25	-3 25	0.1	0.2	0.0 - -	0.2 070	0.0 - -	0.4 278
451	Mark Island, 0.3 nmi., SSE of	14	44 10.00	68 58.83	-1 41	-1 31	-1 59	-1 26	0.2	0.2	0.2 331	0.4 044	0.1 163	0.5 246
456	Saddle Island, northwest of	14	44 10.85	68 57.30	-3 43	-2 31	-3 56	-2 13	0.1	0.2	0.2 272	0.3 010	0.1 101	0.4 225
461	Mark Island, 0.3 nautical mile, N of	14	44 10.87	68 58.92	See Rotary tidal currents, table 2.									
466	Lasell Island, SSW of	14	44 11.20	68 56.82	-1 47	-1 31	-2 54	-1 46	0.2	0.2	0.0 - -	0.4 022	0.0 - -	0.4 217
471	East Goose Rock, NNE of	14	44 11.37	68 58.08	-3 45	-2 43	-3 57	-3 13	0.2	0.2	0.0 - -	0.4 000	0.2 112	0.4 210
476	Camden Harbor Entrance	14	44 12.17	69 02.80	-2 44	-4 06	-2 26	-1 56	0.1	0.1	0.0 - -	0.2 354	0.1 325	0.3 190
						-3 10			0.1			0.2 003		
						-1 19			0.2			0.3 009		
481	Ensign Island, SSE of	14	44 13.40	68 57.52	-1 30	-1 00	+0 32	-1 25	0.2	0.1	0.0 - -	0.3 022	0.0 - -	0.3 220
486	Warren Island, northwest of	14	44 16.55	68 57.27	-2 17	-0 52	-1 23	-1 13	0.2	0.1	0.0 - -	0.5 036	0.0 - -	0.3 248

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	MAINE COAST Time meridian, 75°W				on BAY OF FUNDY ENTRANCE, p.4													
	West Penobscot Bay																	
491	Ducktrap Harbor, northeast of.....	15	44 18.00	68 56.38	-1 07	-0 58	-1 23	-0 41	0.2	0.2	0.0	- -	0.5	355	0.0	- -	0.4	185
	...do.....	40	44 18.00	68 56.38	-2 29	-1 20	-1 47	-1 49	0.2	0.1	0.0	- -	0.4	014	0.0	- -	0.3	237
496	Ducktrap Harbor, NNE of.....	90	44 18.27	68 57.35	-0 59	-0 28	-0 19	-0 33	0.2	0.1	0.0	- -	0.4	014	0.0	- -	0.3	203
	...do.....	160	44 18.27	68 57.35	-1 02	-0 29	-0 10	-0 27	0.2	0.1	0.0	- -	0.5	038	0.0	- -	0.3	233
501	Ducktrap Harbor, NNE of.....	15	44 18.30	68 57.55	+0 33	-0 13	-0 56	-0 35	0.2	0.2	0.0	- -	0.4	058	0.0	- -	0.5	202
	...do.....	130	44 18.30	68 57.55	-1 14	-0 52	-0 48	-1 11	0.3	0.2	0.0	- -	0.6	013	0.0	- -	0.5	193
506	Flat Island, SSW of.....	14	44 18.83	68 55.45	-1 13	-0 23	-0 55	-2 07	0.2	0.2	0.0	- -	0.4	045	0.1	135	0.4	230
511	Isleboro Harbor, NE of, Penobscot Bay...	75	44 18.97	68 52.78	-1 04	-1 00	-1 36	-1 25	0.1	0.1	0.0	- -	0.3	004	0.0	- -	0.3	166
516	Isleboro Harbor, NE of, Penobscot Bay...	15	44 19.03	68 52.67	+0 26	-0 54	-1 22	-1 23	0.1	0.1	0.0	- -	0.1	334	0.1	248	0.3	154
521	Head of the Cape, 0.8 nmi. W, of Pen.Bay	15	44 19.25	68 50.80	-0 24	-0 14	-0 24	-0 28	0.2	0.2	0.0	- -	0.4	325	0.0	- -	0.4	125
	...do.....	130	44 19.25	68 50.80	-1 14	-0 59	-0 41	-0 51	0.2	0.1	0.0	- -	0.4	015	0.0	- -	0.3	166
526	Head of the Cape, NNW of, Penobscot Bay.	15	44 19.07	68 50.17	-0 46	-0 39	-0 18	-0 53	0.3	0.2	0.0	- -	0.6	332	0.0	- -	0.4	163
	...do.....	30	44 19.07	68 50.17	-1 22	-0 47	-0 24	-0 59	0.2	0.1	0.0	- -	0.5	356	0.0	- -	0.3	176
	...do.....	130	44 19.07	68 50.17	-0 59	-1 20	-1 11	-0 59	0.2	0.2	0.0	- -	0.3	353	0.0	- -	0.4	172
531	Ram Island, west of, West Penobscot Bay.	14	44 21.28	68 54.95	-3 43	-1 55	-2 53	-2 16	0.2	0.1	0.0	- -	0.4	004	0.0	- -	0.3	189
536	Temple Heights, NE of, W Penobscot Bay..	15	44 21.38	68 55.33	-1 02	-1 23	-2 03	-1 18	0.2	0.2	0.0	- -	0.4	000	0.0	- -	0.4	189
	...do.....	65	44 21.38	68 55.33	-1 46	-1 12	-1 36	-1 33	0.2	0.1	0.0	- -	0.4	354	0.0	- -	0.3	175
541	Temple Heights, NNE of, W Penobscot Bay.	15	44 21.45	68 56.62	-0 34	-0 21	-0 35	-1 05	0.3	0.3	0.0	- -	0.6	005	0.0	- -	0.7	175
	...do.....	30	44 21.45	68 56.62	-0 51	-0 26	-0 15	-0 43	0.2	0.2	0.0	- -	0.6	344	0.0	- -	0.4	188
	...do.....	50	44 21.45	68 56.62	-0 28	-0 30	-0 47	-0 39	0.2	0.2	0.0	- -	0.5	333	0.0	- -	0.5	164
					on PORTSMOUTH HARBOR ENTRANCE, p.10													
546	Muscongus Sound.....		43 56.5	69 26.9	Current weak and variable													
551	Damariscotta River, off Cavis Point.....		43 52.5	69 35.0	-0 49	-0 44	-1 24	-1 18	0.5	0.6	0.0	- -	0.6	350	0.0	- -	1.0	215
556	Sheepscot River, off Barter Island.....		43 54.0	69 41.5	-0 48	-1 02	-1 15	-0 33	0.7	0.6	0.0	- -	0.8	005	0.0	- -	1.1	200
561	Lowe Point, NE of, Sasanoa River.....		43 51.1	69 43.3	-0 48	+0 09	-0 46	-0 27	1.4	1.0	0.0	- -	1.7	327	0.0	- -	1.8	152
566	Lower Hell Gate, Knubble Bay <2>.....		43 52.6	69 43.8	-0 23	+0 37	-0 46	+0 06	2.5	1.9	0.0	- -	3.0	290	0.0	- -	3.5	155
571	Upper Hell Gate, Sasanoa River.....		43 53.7	69 46.3	+3 31	+2 48	+1 20	+2 03	0.[P]	0.5	0.0	- -	1.0	307	0.0	- -	0.8	142
	KENNEBEC RIVER																	
576	Hunniwell Point, northeast of.....		43 45.4	69 46.9	+0 05	+0 12	+0 05	+0 24	2.0	1.6	0.0	- -	2.4	332	0.0	- -	2.9	151
581	Bald Head, 0.3 mile southwest of.....		43 48.1	69 47.6	+0 23	+0 28	-0 04	+0 23	1.3	1.3	0.0	- -	1.6	321	0.0	- -	2.3	153
586	Bluff Head, west of.....		43 51.3	69 47.8	+0 33	+0 53	+0 26	+0 24	1.9	1.9	0.0	- -	2.3	014	0.0	- -	3.4	184
591	Fiddler Ledge, north of.....		43 52.8	69 47.8	+0 47	+1 12	+0 22	+0 48	1.6	1.4	0.0	- -	1.9	267	0.0	- -	2.6	113
596	Doubling Point, south of.....		43 52.8	69 48.4	+0 28	+0 49	+0 23	+0 53	2.2	1.7	0.0	- -	2.6	300	0.0	- -	3.0	127
601	Lincoln Ledge, east of.....		43 53.8	69 48.6	+0 32	+0 45	+0 23	+0 34	1.6	1.6	0.0	- -	1.9	359	0.0	- -	2.8	174
606	Bath, 0.2 mile south of bridge <3>.....		43 54.5	69 48.5	+0 29	+1 28	+0 43	+0 23	0.8	0.8	0.0	- -	1.0	003	0.0	- -	1.5	177
	CASCO BAY																	
611	Broad Sound, west of Eagle Island.....		43 42.7	70 03.8	-1 16	-1 05	-1 27	-0 59	0.8	0.7	0.0	- -	0.9	010	0.0	- -	1.3	168
616	Ram Island, 1.6 nautical miles east of..	88	43 38.2	70 09.2	-0 06	+0 10	-0 12	+0 39	0.2	0.4	0.1	241	0.3	302	0.1	209	0.6	165
621	Hussey Sound, southwest of Overset I....	81	43 40.2	70 10.5	-1 37	-1 29	-1 14	-1 12	0.9	0.6	0.0	- -	1.1	311	0.2	224	1.1	151

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CASCO BAY Time meridian, 75°W				on PORTSMOUTH HARBOR ENTRANCE, p.10													
626	Hussey Sound, SW of Overset Island.....	15	43 40.27	70 10.52	-1 28	-1 18	-0 58	-1 30	0.9	0.6	0.0	- -	1.1	316	0.3	189	1.2	153
	...do.....	25	43 40.27	70 10.52	-1 39	-1 19	-1 06	-1 32	0.9	0.6	0.0	- -	1.1	318	0.3	211	1.1	155
	...do.....	40	43 40.27	70 10.52	-1 58	-1 16	-1 05	-1 32	0.9	0.5	0.1	228	1.1	314	0.3	200	1.0	154
631	Hussey Sound, SE of Pumpkin Nob.....	40	43 40.45	70 10.78	-2 21	-1 29	-1 32	-1 14	1.0	0.5	0.1	068	1.2	346	0.1	066	0.9	168
636	Hussey Sound, east of Crow Island.....	71	43 41.2	70 10.8	-2 22	-0 35	-1 15	-1 27	0.8	0.4	0.0	- -	1.0	004	0.1	282	0.8	193
641	Hussey Sound, east of Crow Island.....	40	43 41.33	70 10.79	-2 18	-0 42	-0 55	-1 24	0.7	0.4	0.1	114	0.9	016	0.0	- -	0.8	197
646	Long Island, 0.65 nautical mile NW of...	41	43 42.2	70 09.9	-1 45	-1 26	-1 12	-0 30	0.2	0.1	0.0	- -	0.3	015	0.0	- -	0.3	176
651	Little Chebeague Island, southeast of...	25	43 42.4	70 08.7	-2 40	-1 39	-1 53	-1 48	0.8	0.5	0.0	- -	0.9	216	0.0	- -	0.9	051
656	Long Island, 1.3 nautical miles NW of...	20	43 42.5	70 10.7	-2 16	-0 18	-0 46	-1 36	0.3	0.1	0.0	- -	0.4	330	0.1	262	0.2	192
661	Waites Landing, northeast of.....	10	43 42.5	70 12.5	-2 39	-2 00	-2 12	-1 31	0.1	0.1	0.0	- -	0.1	328	0.0	- -	0.2	168
666	Clapboard Island, 0.5 nmi. northwest of.	15	43 43.5	70 12.0	-2 34	-2 00	-3 28	-3 24	0.1	0.1	0.0	- -	0.1	022	0.0	- -	0.2	232
671	Sturdivant Island, southeast of.....	28	43 44.2	70 10.5	-2 12	-1 12	-1 04	-0 31	0.2	0.1	0.0	- -	0.2	013	0.0	- -	0.1	216
676	Sturdivant Island, west of.....	25	43 44.3	70 11.5	-1 34	-0 52	-1 23	-0 48	0.2	0.2	0.0	- -	0.3	017	0.0	- -	0.3	213
681	Cousin I. and Great Chebeague I., btwn..	10	43 44.3	70 08.3	-3 42	-1 32	-1 28	-1 55	0.2	0.0	0.0	- -	0.2	041	0.0	- -	0.1	211
686	Littlejohn Island, Town Landing.....	34	43 45.4	70 07.4	-4 58	-2 34	-1 59	-2 25	0.3	0.1	0.0	- -	0.4	063	0.0	- -	0.1	252
691	Cushing Island, 0.24 nautical mile SW of	53	43 37.8	70 12.5	-1 47	-1 32	-1 29	-1 34	0.8	0.5	0.0	- -	0.9	297	0.1	200	1.0	135
696	Portland Hbr. ent., SW of Cushing I.....		43 37.9	70 12.7	-1 43	-1 11	-1 20	-0 58	0.8	0.6	0.0	- -	1.0	322	0.0	- -	1.1	154
701	Portland Bridge, center of draw.....	19	43 38.7	70 15.5	-2 28	-1 28	-1 31	-1 30	0.5	0.3	0.0	- -	0.6	219	0.0	- -	0.5	044
706	Spring Point, 0.2 nautical mile east of.	34	43 39.0	70 13.1	-1 42	-1 36	-1 45	-1 18	0.7	0.5	0.0	- -	0.9	352	0.0	- -	0.9	179
711	House Island, east of.....	32	43 39.2	70 12.3	-1 30	-1 09	-2 07	-1 06	0.5	0.4	0.1	319	0.6	012	0.0	- -	0.7	175
716	Portland Breakwater Light 0.3 mi. NW of <1> <4>.....		43 39.5	70 14.5	- - -	-0 47	- - -	-1 07	0.3	0.3	0.0	- -	0.4		0.0	- -	0.5	048
721	Grand Trunk Wharves, off ends <1>.....		43 39.5	70 14.7	- - -	-1 45	- - -	-1 50	0.5	0.2	0.0	- -	0.6	250	0.0	- -	0.4	040
726	Diamond I. Ledge, midchannel SW. of.....		43 39.6	70 13.5	-1 26	-1 12	-1 11	-1 06	0.8	0.5	0.0	- -	0.9	300	0.0	- -	0.9	150
731	Fore River, mouth of.....	15	43 39.7	70 14.2	-3 50	-1 22	+0 12	-1 21	0.3	0.1	0.1	0 58	0.4	286	0.1	190	0.1	119
736	Diamond Island Pass <57>.....	8	43 39.9	70 12.3	+0 12	-0 09	+2 37	+2 02	0.2	*	0.0	- -	0.2	037	0.0	- -	*	198
741	Little Diamond Island, 0.15 nmi. west of	12	43 39.9	70 12.9	-2 01	-1 42	-1 19	-1 15	0.6	0.4	0.0	- -	0.7	017	0.0	- -	0.8	185
746	Back Cove, swing bridge.....	7	43 40.5	70 14.9	-2 31	-1 24	-1 35	-1 13	0.4	0.3	0.0	- -	0.5	250	0.0	- -	0.5	075
	MAINE COAST-Continued																	
751	Cape Elizabeth.....		43 34	70 11	-1 35	-1 35	-1 35	-1 35	0.2	0.2	0.0	- -	0.3	340	0.0	- -	0.3	160
756	Cape Porpoise.....		43 22	70 24	-0 55	-0 55	-0 55	-0 55	0.2	0.2	0.0	- -	0.3	035	0.0	- -	0.3	215
761	Cape Neddick.....		43 10	70 35	-0 20	-0 20	-0 20	-0 20	0.3	0.3	0.0	- -	0.4	025	0.0	- -	0.4	205
766	York Harbor entrance, 3 miles south of..		43 08	70 33	-0 15	-0 15	-0 15	-0 15	0.3	0.3	0.0	- -	0.4	025	0.0	- -	0.4	205
	PORTSMOUTH HARBOR																	
771	Odiornes Point, NNE of.....	15	43 02.95	70 42.50	+1 13	+1 45	+0 49	+2 15	0.4	0.5	0.0	- -	0.5	339	0.0	- -	0.8	183
776	Odiornes Point, northeast of.....	15	43 03.00	70 42.10	-0 01	+0 05	+0 37	+1 05	0.5	0.5	0.1	238	0.6	320	0.0	- -	1.0	156
781	Kitts Rocks, WSW of <64>.....	15	43 03.10	70 41.80	- - -	+0 07	+0 08	-0 02	0.6	0.4	0.2	191	0.7	314	0.1	058	0.8	133
786	Kitts Rocks, 0.2 mile west of.....		43 03	70 42	0 00	0 00	0 00	0 00	0.7	0.9	0.0	- -	0.8	325	0.0	- -	1.6	175
791	Little Harbor entrance.....		43 03	70 43	-1 00	-1 00	-1 00	-1 00	0.6	0.6	0.0	- -	0.7	310	0.0	- -	1.1	130
796	Whaleback Reef, west of.....	15	43 03.50	70 42.27	-0 01	+0 18	+0 11	+0 12	0.6	0.8	0.0	- -	0.7	340	0.0	- -	1.5	144
801	PORTSMOUTH HARBOR ENT. (off Wood I.)....		43 03.8	70 42.3	Daily predictions						0.0	- -	1.2	355	0.0	- -	1.8	195
806	Wood Island, northwest of.....	15	43 03.95	70 42.30	+0 02	0 00	+0 31	-0 42	1.0	0.7	0.2	291	1.2	358	0.1	278	1.3	199
811	Fort Point.....		43 04	70 42	+0 05	+0 05	+0 05	+0 05	1.2	1.1	0.0	- -	1.5	350	0.0	- -	2.0	130
816	Salamander Point, north of.....	15	43 04.58	70 43.02	+0 14	+0 35	+0 34	+0 47	1.1	0.5	0.0	- -	1.4	257	0.2	167	0.8	091

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	PORTSMOUTH HARBOR Time meridian, 75°W				on PORTSMOUTH HARBOR ENTRANCE, p.10													
821	Salamander Point		43 05	70 43	+0 10	+0 10	+0 10	+0 10	1.1	0.7	0.0	- -	1.3	260	0.0	- -	1.3	085
826	Hick Rocks and Clark Island, between		43 05	70 43	-0 35	-0 50	-0 35	-0 50	0.8	0.4	0.0	- -	0.9	335	0.0	- -	0.8	195
831	Kittery Point Bridge		43 05	70 43	-1 10	-1 10	-1 10	-1 10	0.7	0.6	0.0	- -	0.8	020	0.0	- -	1.1	200
836	Jamaica Island, northeast of		43 05	70 43	-0 25	-0 25	-0 25	-0 25	0.8	0.7	0.0	- -	1.0	315	0.0	- -	1.0	135
841	Seavey Island, north of		43 05	70 44	+0 15	+0 15	+0 15	+0 15	1.2	1.0	0.0	- -	1.4	260	0.0	- -	1.8	080
846	Clark I. and Seavey I., between <5>		43 05	70 44	- - -	- - -	- - -	- - -	1.5	- -	0.0	- -	1.8	200	0.0	- -	- -	- -
851	Clark Island, south of	15	43 04.43	70 43.48	+0 23	+0 22	+0 36	+0 33	1.3	1.3	0.0	- -	1.6	270	0.0	- -	2.3	085
856	Clark Island, southwest of	15	43 04.50	70 43.67	+0 21	-0 14	+0 34	-0 04	0.6	0.5	0.0	- -	0.7	263	0.0	- -	0.8	070
861	Seavey Island, south of		43 04	70 44	+0 15	+0 15	+0 15	+0 15	2.5	2.1	0.0	- -	3.0	260	0.0	- -	3.8	090
866	Marvin Island and Goat Island, between		43 04	70 44	-1 00	-1 00	-1 00	-1 00	1.0	0.4	0.0	- -	1.2	160	0.0	- -	0.8	340
871	Henderson Point, SSW of	15	43 04.40	70 44.32	+0 04	+1 11	+0 15	+0 38	1.3	1.0	0.1	228	1.6	306	0.0	- -	1.8	133
876	Henderson Point, west of		43 05	70 44	+0 30	+0 30	+0 30	+0 30	2.2	1.3	0.0	- -	2.6	340	0.0	- -	2.3	170
881	Shapleigh Island Bridge, south of		43 04.18	70 44.30	-0 50	-0 27	-0 53	-0 35	0.7	0.4	0.0	- -	0.8	178	0.0	- -	0.7	348
886	Pierces Island, northeast of	15	43 04.55	70 44.48	-0 18	+0 25	+0 39	-0 19	2.4	0.7	0.1	243	2.8	325	0.0	- -	1.3	144
891	Off Gangway Rock		43 05	70 45	+0 30	+0 30	+0 30	+0 30	1.7	1.7	0.0	- -	2.1	280	0.0	- -	3.0	110
896	Badgers Island, east of		43 05	70 45	+0 25	+0 25	+0 25	+0 25	0.9	0.2	0.0	- -	1.1	240	0.0	- -	0.4	050
901	Badgers Island, southwest of		43 05	70 45	+0 30	+0 30	+0 30	+0 30	2.7	2.0	0.0	- -	3.3	330	0.0	- -	3.7	125
	PISCATAQUA RIVER and tributaries																	
906	NW of Nobles Island (RR. bridge)		43 05	70 46	+0 35	+0 35	+0 35	+0 35	1.3	0.5	0.0	- -	1.6	050	0.0	- -	0.9	200
911	Nobles Island, north of		43 06	70 46	+0 30	+0 30	+0 30	+0 30	3.0	2.4	0.0	- -	3.6	305	0.0	- -	4.4	140
916	Frankfort Island, south of		43 07	70 48	+0 30	+0 30	+0 30	+0 30	2.2	1.6	0.0	- -	2.6	310	0.0	- -	2.9	130
921	Dover Point Bridge, south of	15	43 07	70 49.73	+0 23	-0 02	+0 52	+0 19	2.3	1.5	0.1	197	2.8	279	0.0	- -	2.7	106
926	Dover Point, west of	15	43 07.15	70 50.23	-0 03	+0 09	+0 31	0 00	1.2	0.3	0.1	191	1.4	283	0.0	- -	0.6	119
931	Goat Island, north of	15	43 07.62	70 51.37	+0 42	+0 56	+0 28	+0 51	1.0	0.7	0.1	352	1.2	272	0.0	- -	1.3	077
936	Goat Island and Fox Point, between	15	43 07.37	70 51.42	+0 24	+1 30	+0 59	+2 32	0.9	0.3	0.1	219	1.1	303	0.0	- -	0.6	142
941	Knight Hill Township, west of	15	43 06.47	70 51.50	+0 29	+0 32	+1 02	+0 23	0.6	0.5	0.0	- -	0.7	205	0.1	286	0.8	015
	MASSACHUSETTS COAST																	
946	Gunboat Shoal		43 01	70 42	+0 05	+0 05	+0 05	+0 05	0.4	0.3	0.0	- -	0.5	340	0.0	- -	0.5	160
951	Isles of Shoals Light, White Island		42 58	70 37	0 00	0 00	0 00	0 00	0.2	0.2	0.0	- -	0.3	020	0.0	- -	0.3	200
					on BOSTON HARBOR, p.16													
956	Merrimack River entrance		42 49.1	70 48.6	+1 04	+1 15	+1 13	-0 34	2.0	1.2	0.0	- -	2.2	285	0.0	- -	1.4	105
961	Newburyport, Merrimack River		42 48.8	70 52.1	+1 28	+1 48	+1 47	+0 35	1.4	1.2	0.0	- -	1.5	288	0.0	- -	1.4	098
966	Plum Island Sound entrance		42 42.3	70 47.3	+0 36	+0 50	+0 48	-0 07	1.5	1.2	0.0	- -	1.6	316	0.0	- -	1.5	184
971	Annisquam Harbor Light		42 40.1	70 41.1	+0 42	+0 49	+0 58	+0 03	0.9	1.1	0.0	- -	1.0	200	0.0	- -	1.3	013
976	Gloucester Harbor entrance		42 34.9	70 40.5	-0 28	+0 01	-0 29	-0 36	0.3	0.2	0.0	- -	0.3	340	0.0	- -	0.3	195
981	Blynman Canal ent., Gloucester Harbor		42 36.6	70 40.4	-0 06	+0 05	-0 15	-0 39	2.7	2.8	0.0	- -	3.0	310	0.0	- -	3.3	130
986	Marblehead Channel		42 30	70 49	+1 09	+1 09	+1 09	+1 09	0.4	0.3	0.0	- -	0.4	285	0.0	- -	0.4	105
991	Ram Island, 0.2 n.mi. NNE of	10	42 28.75	70 51.68	See Rotary tidal currents, table 2.													
996	Ram Island, 0.2 n.mi. southeast of	10	42 28.45	70 51.55	See Rotary tidal currents, table 2.													
1001	Great Pig Rocks, southeast of	10	42 27.53	70 50.70	See Rotary tidal currents, table 2.													
1006	Galloupes Point, 0.4 n.mi. south of	10	42 27.24	70 53.70	See Rotary tidal currents, table 2.													
1011	Little Nahant, 0.9 n.mi. northeast of	10	42 26.85	70 54.84	See Rotary tidal currents, table 2.													

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	MASSACHUSETTS COAST Time meridian, 75°W				on BOSTON HARBOR, p.16									
1016	Egg Rock, 0.2 n.mi. north of	10	42 26.25	70 53.93	See Rotary tidal currents, table 2.									
1021	Egg Rock, southwest of	10	42 25.85	70 54.20	See Rotary tidal currents, table 2.									
1026	Nahant, 1.8 n.mi. NE of East Point	10	42 26.00	70 52.02	+0 32	+0 49	+0 15	+1 00	0.6	0.6	0.0 - -	0.7 252	0.1 291	0.7 144
	...do	45	42 26.00	70 52.02	-0 21	+1 04	+1 14	-0 31	0.3	0.2	0.0 - -	0.3 250	0.0 - -	0.2 070
	...do	80	42 26.00	70 52.02	-0 25	+1 04	+1 15	-0 31	0.2	0.1	0.1 329	0.2 238	0.0 - -	0.2 077
1031	Nahant, 0.4 n.mi. east of East Point	15	42 25.23	70 53.63	+0 04	-0 41	+0 15	+0 22	0.4	0.5	0.2 118	0.5 205	0.0 - -	0.6 045
	...do	25	42 25.23	70 53.63	+0 03	-0 26	+0 08	+0 29	0.4	0.4	0.1 102	0.4 198	0.1 282	0.5 027
1036	Nahant, 1 n.mi. SE of East Point	45	42 23.83	70 51.17	+0 04	+1 04	+1 13	+0 14	0.3	0.2	0.0 - -	0.3 253	0.0 - -	0.3 074
	...do	70	42 23.83	70 51.17	-0 22	-0 04	+0 19	-1 01	0.2	0.2	0.0 - -	0.2 261	0.0 - -	0.2 090
1041	Pea Island, 0.4 n.mi. southeast of	15	42 24.63	70 54.13	+0 53	+0 55	+0 42	-0 01	0.5	0.4	0.0 - -	0.5 239	0.1 161	0.5 063
	...do	25	42 24.63	70 54.13	+0 34	+0 34	+0 57	+0 29	0.4	0.3	0.0 - -	0.5 224	0.0 - -	0.4 048
	...do	65	42 24.63	70 54.13	-0 37	-0 59	+0 14	-0 31	0.3	0.3	0.1 332	0.4 271	0.0 - -	0.3 035
1046	Bass Point, 1.2 n.mi. southeast of	10	42 24.12	70 55.07	-0 22	+1 20	+0 58	-0 14	0.7	0.6	0.1 351	0.7 259	0.0 - -	0.7 066
	...do	45	42 24.12	70 55.07	-0 29	-0 10	+0 52	-0 29	0.3	0.2	0.0 - -	0.4 251	0.0 - -	0.3 086
	...do	60	42 24.12	70 55.07	-0 29	-0 10	+0 31	-0 59	0.2	0.2	0.0 - -	0.3 250	0.0 - -	0.2 091
1051	Bass Point, 0.5 n.mi. SSW of	15	42 24.57	70 56.53	See Rotary tidal currents, table 2.									
1056	Bass Point, 0.7 n.mi. west of	10	42 25.13	70 57.25	See Rotary tidal currents, table 2.									
1061	Little Nahant Cupola, 0.6 n.mi. west of	10	42 25.87	70 56.83	-0 02	-0 26	+1 32	+0 46	0.4	0.4	0.0 - -	0.4 033	0.1 137	0.5 219
1066	Sand Point, Black Marsh Channel	10	42 26.58	70 56.52	+0 04	-0 17	+1 00	+0 27	0.5	0.4	0.0 - -	0.5 013	0.0 - -	0.5 203
1071	Lynn Harbor	10	42 27.27	70 56.78	+0 29	-0 26	+2 35	+1 25	0.2	0.2	0.0 - -	0.3 274	0.0 - -	0.2 090
1076	Point of Pines, 0.5 n.mi. south of	6	42 25.97	70 57.53	+0 05	+0 19	+1 08	+0 41	0.4	0.5	0.0 - -	0.5 009	0.0 - -	0.6 198
1081	Point of Pines, 0.1 n.mi. northeast of	6	42 26.52	70 57.62	+0 43	+0 29	+1 00	+0 34	0.8	1.0	0.0 - -	0.9 296	0.0 - -	1.2 131
1086	Finn's Ledge Bell, 0.2 n.mi. west of	10	42 22.17	70 55.42	-0 01	+1 05	+0 26	-0 02	0.5	0.6	0.0 - -	0.6 226	0.2 295	0.8 035
	...do	25	42 22.17	70 55.42	-0 11	+0 50	+0 36	+0 28	0.3	0.4	0.0 - -	0.3 229	0.0 - -	0.5 033
1091	Winthrop Head, 1.1 n.mi. east of	10	42 21.93	70 56.52	-1 12	+0 19	+0 31	-1 46	0.4	0.3	0.3 103	0.5 205	0.2 297	0.4 019
1096	Lovell Island, 1.3 n.mi. north of	10	42 21.30	70 55.90	-0 52	-0 57	-0 14	-0 25	0.8	1.0	0.2 112	0.9 196	0.2 300	1.2 033
	...do	25	42 21.30	70 55.90	-1 19	-0 59	-0 12	-0 13	0.7	0.6	0.2 102	0.7 197	0.1 135	0.7 033
	BOSTON HARBOR APPROACHES													
1101	The Graves, 0.3 n.mi. SSE of	10	42 21.60	70 52.00	+0 16	+1 08	+1 21	+0 19	0.5	0.5	0.3 171	0.6 227	0.1 135	0.6 103
	...do	45	42 21.60	70 52.00	-0 37	-0 52	-0 10	-0 58	0.3	0.4	0.1 186	0.4 262	0.0 - -	0.5 085
	...do	60	42 21.60	70 52.00	-0 49	-0 52	-0 16	-1 23	0.2	0.3	0.0 - -	0.3 252	0.0 - -	0.4 070
1106	Thieves Ledge	45	42 19.28	70 50.28	-0 15	-0 06	-0 40	-1 37	0.2	0.2	0.1 030	0.2 304	0.0 - -	0.3 128
1111	Little Brewster Island, 1.5 n.mi. E of	10	42 19.68	70 51.43	+2 19	+0 41	-0 40	+0 55	0.5	1.0	0.4 028	0.6 285	0.6 337	1.2 080
	...do	35	42 19.68	70 51.43	+0 53	-0 49	+0 03	+1 30	0.3	0.4	0.0 - -	0.3 236	0.2 212	0.5 076
	...do	60	42 19.68	70 51.43	-1 14	-1 23	+1 31	-0 45	0.3	0.2	0.2 265	0.3 225	0.0 - -	0.2 047
1116	Hypocrite Channel	10	42 20.95	70 53.63	+0 13	+0 19	+0 49	-0 31	0.8	0.8	0.1 345	0.9 262	0.1 351	1.0 070
1121	Little Calf Island, 0.4 n.mi. NW of	10	42 21.05	70 54.00	+0 23	+0 04	-0 15	-0 18	0.5	0.6	0.0 - -	0.5 220	0.1 290	0.7 048
1126	Boston Light, 0.2 n.mi. south of	10	42 19.52	70 53.40	+0 14	+0 19	+0 41	+0 40	0.9	1.1	0.1 203	1.0 267	0.0 - -	1.4 100
1131	Point Allerton, 0.8 n.mi. NNW of	10	42 19.28	70 53.25	+0 25	+0 03	+0 46	-0 05	1.0	1.1	0.0 - -	1.1 270	0.1 005	1.4 086
	...do	25	42 19.28	70 53.25	+0 17	+0 13	+0 55	+0 29	0.9	0.9	0.0 - -	1.0 257	0.0 - -	1.0 090
1136	Point Allerton, 0.5 n.mi. NNW of	10	42 19.05	70 53.10	+0 14	+0 26	+0 41	+0 11	0.9	1.0	0.0 - -	1.0 280	0.0 - -	1.3 079
	...do	25	42 19.05	70 53.10	+0 08	+0 29	+0 53	+0 25	0.8	0.8	0.0 - -	0.9 262	0.0 - -	0.9 080
1141	Point Allerton, 0.4 n.mi. northwest of	10	42 18.88	70 53.23	-0 09	+0 53	+0 17	-1 11	0.6	0.7	0.0 - -	0.7 265	0.2 353	0.8 080
1146	Calf Island, 0.4 n.mi. west of	10	42 20.33	70 54.38	+0 02	+0 23	+0 10	+0 13	0.5	0.5	0.0 - -	0.6 198	0.0 - -	0.6 037
	...do	25	42 20.33	70 54.38	-0 28	0 00	+0 16	-1 36	0.5	0.3	0.0 - -	0.5 203	0.0 - -	0.3 052
	...do	45	42 20.33	70 54.38	-1 28	+0 04	+0 05	-2 15	0.3	0.3	0.0 - -	0.4 209	0.0 - -	0.3 020

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BOSTON HARBOR APPROACHES Time meridian, 75°W				on BOSTON HARBOR, p.16													
1151	Aldridge Ledge, 0.2 n.mi. north of.....	10	42 20.97	70 54.80	+0 22	+1 03	+0 43	+0 02	0.8	1.0	0.3	139	0.9	230	0.1	326	1.2	061
	...do.....	25	42 20.97	70 54.80	+0 08	+0 35	+0 52	+0 50	0.6	0.6	0.0	- -	0.7	223	0.0	- -	0.7	042
1156	Lovell Island and Calf Island, between..	10	42 20.35	70 54.80	See Rotary tidal currents, table 2.													
1161	Black Rock Channel.....	10	42 19.73	70 54.93	-0 08	-0 11	+0 24	-0 01	0.6	0.8	0.1	325	0.6	247	0.2	122	0.9	046
1166	Deer Island Light, 0.4 n.mi. NW of.....	35	42 20.58	70 55.70	-0 15	-2 10	-4 11	-1 46	0.2	0.5	0.0	- -	0.2	307	0.0	- -	0.6	116
1171	Lovell Island, 0.4 n.mi. north of.....	10	42 20.45	70 55.80	+0 09	-0 11	+0 22	-0 29	1.1	1.0	0.1	330	1.2	259	0.1	337	1.2	064
	...do.....	25	42 20.45	70 55.80	-0 08	-0 14	+0 26	-0 11	1.1	0.8	0.0	- -	1.2	264	0.0	- -	0.9	074
1176	Deer Island, 0.7 n.mi. ESE of.....	10	42 20.65	70 56.30	+0 27	+0 19	+0 38	+0 10	1.1	1.1	0.0	- -	1.3	220	0.0	- -	1.4	048
	...do.....	35	42 20.65	70 56.30	-0 01	-0 11	+0 41	+0 20	1.0	0.7	0.0	- -	1.1	221	0.0	- -	0.9	048
1181	Deer Island Light, 0.8 n.mi. ESE of.....	10	42 20.22	70 56.28	-0 04	-0 20	+0 20	-1 23	0.8	0.8	0.2	138	0.9	233	0.0	- -	0.9	066
1186	Deer Island Light, 0.4 n.mi. east of....	10	42 20.45	70 56.77	+0 08	-1 13	+0 17	-0 16	0.8	0.8	0.3	319	0.9	240	0.2	138	1.0	057
						-0 11			0.7	- -			0.8	219				
						+1 02			0.9	- -			0.9	214				
	...do.....	35	42 20.45	70 56.77	-0 32	+0 52	+0 44	+0 16	1.0	0.6	0.0	- -	1.1	264	0.0	- -	0.8	053
1191	Deer Island Light, 0.7 n.mi. ESE of.....	35	42 20.25	70 56.38	-0 23	-0 10	+0 25	-1 01	0.9	0.5	0.1	312	1.0	233	0.0	- -	0.6	062
	BOSTON HARBOR-PRESIDENT ROADS																	
1196	BOSTON HARBOR (Deer Island Light).....	10	42 20.27	70 57.37	Daily predictions						0.0	- -	1.1	254	0.3	184	1.2	111
1201	Deer Island Light, 0.3 n.mi. SSE of.....	10	42 20.12	70 57.42	+0 02	+0 44	+0 15	+0 28	1.3	0.9	0.0	- -	1.4	265	0.4	199	1.0	082
	...do.....	35	42 20.12	70 57.42	-0 11	+0 46	+0 49	+0 28	1.3	0.8	0.0	- -	1.4	261	0.0	- -	1.0	090
1206	Deer Island Light, 0.4 n.mi. SSE of.....	10	42 19.97	70 57.42	+0 06	+0 53	+0 43	+0 30	1.4	0.9	0.0	- -	1.5	265	0.2	178	1.2	073
	...do.....	25	42 19.97	70 57.42	-0 02	+0 47	+0 52	+0 33	1.3	0.9	0.0	- -	1.4	269	0.0	- -	1.0	081
1211	Deer Island, southwest of.....	10	42 20.63	70 57.78	+0 04	-0 26	-1 58	-1 08	0.4	0.5	0.0	- -	0.4	351	0.3	065	0.6	137
1216	Long Island Head, 0.9 n.mi. NW of.....	10	42 20.40	70 58.43	-0 08	+0 30	+0 01	-0 44	0.6	0.5	0.1	175	0.6	302	0.0	- -	0.6	103
	...do.....	35	42 20.40	70 58.43	-0 01	+1 21	+0 50	+0 33	0.4	0.3	0.0	- -	0.4	304	0.0	- -	0.4	079
1221	Deer Island Flats.....	10	42 20.83	70 58.65	-0 27	-1 11	-1 32	-3 04	0.4	0.4	0.0	- -	0.4	327	0.4	049	0.5	107
1226	Deer Island Light, 1.3 n.mi. NW of.....	10	42 21.12	70 58.74	See Rotary tidal currents, table 2.													
1231	Snake Island, southwest of.....	10	42 21.77	70 59.22	-0 05	+0 19	+0 31	+0 13	0.4	0.4	0.0	- -	0.4	312	0.0	- -	0.5	134
1236	Deer Island Light, 1.0 n.mi. WSW of.....	10	42 19.97	70 58.43	+0 52	+1 14	+2 10	+1 05	1.2	0.7	0.0	- -	1.3	254	0.0	- -	0.8	086
	...do.....	35	42 19.97	70 58.43	+0 04	+1 33	+1 55	+0 23	1.1	0.3	0.0	- -	1.2	273	0.0	- -	0.4	082
1241	Spectacle I. and Long I., between.....	10	42 19.35	70 58.45	-0 04	+0 04	-0 34	-0 22	0.5	0.5	0.0	- -	0.5	217	0.4	121	0.6	038
1246	Spectacle Island, 0.2 n.mi. south of....	10	42 18.98	70 59.15	-0 13	-1 05	-0 52	-1 46	0.4	0.4	0.1	349	0.5	244	0.1	180	0.4	098
1251	Spectacle Island, 0.3 n.mi. north of....	10	42 19.95	70 59.13	+0 37	+1 40	+1 42	+0 37	1.1	0.7	0.0	- -	1.2	271	0.2	359	0.9	081
	...do.....	35	42 19.95	70 59.13	-0 07	+1 32	+1 31	+0 31	0.8	0.5	0.0	- -	0.8	280	0.0	- -	0.6	086
1256	Spectacle Island, 0.7 n.mi. north of....	10	42 20.10	70 59.27	+0 21	+1 09	+1 32	+0 25	0.8	0.6	0.0	- -	0.9	280	0.2	000	0.8	082
	...do.....	25	42 20.10	70 59.27	-0 03	+0 56	+1 26	+0 29	0.6	0.5	0.0	- -	0.7	287	0.1	007	0.6	086
1261	Spectacle Island, 0.1 n.mi. north of....	10	42 19.83	70 59.27	+0 17	+1 40	+1 20	+0 52	1.0	0.7	0.0	- -	1.1	277	0.0	- -	0.8	080
	...do.....	25	42 19.83	70 59.27	-0 11	+1 32	+1 20	-0 03	0.8	0.5	0.0	- -	0.9	280	0.0	- -	0.6	081
1266	Spectacle I. and Thompson I., between...	10	42 19.25	70 59.57	-1 40	-3 54	-2 30	-2 56	0.2	0.3	0.2	227	0.2	306	0.2	045	0.4	127
1271	Thompson Island, 0.7 n.mi. NNE of.....	10	42 19.97	70 59.90	-0 28	+1 31	+1 10	-0 20	0.7	0.5	0.0	- -	0.8	281	0.2	003	0.6	086
	...do.....	35	42 19.97	70 59.90	-1 04	+1 31	+0 48	-0 40	0.4	0.2	0.0	- -	0.5	277	0.0	- -	0.3	091
1276	Fort Independence, 0.3 n.mi. east of....	10	42 20.33	71 00.22	+0 36	+1 31	+1 30	+1 12	0.6	0.5	0.0	- -	0.6	303	0.2	061	0.6	125
1281	Fort Independence, 0.4 n.mi. NW of.....	10	42 20.63	71 00.40	-0 12	-0 25	-0 32	+0 01	0.4	0.5	0.0	- -	0.4	288	0.1	006	0.6	113
1286	South Boston, Reserved Channel.....	10	42 20.57	71 01.97	See Rotary tidal currents, table 2.													
1291	South Boston, Pier 4, 0.2 n.mi. NNE of..	10	42 21.13	71 01.85	+0 38	+0 56	+0 16	+1 13	0.3	0.3	0.0	- -	0.3	299	0.0	- -	0.3	118
	...do.....	25	42 21.13	71 01.85	-0 14	+0 19	+1 42	+0 15	0.3	0.1	0.0	- -	0.4	030	0.0	- -	0.2	120
1296	Charles River.....	10	42 22.18	71 03.38	Current weak and variable													

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BOSTON HARBOR-PRESIDENT ROADS Time meridian, 75°W						on BOSTON HARBOR, p.16											
1301	East Boston, Pier 10, southeast of.....	10	42 22.55	71 02.80	+1 35	+0 50	+0 28	+0 16	0.2	0.3	0.0	- -	0.2	017	0.0	- -	0.4	194
	...do.....	25	42 22.55	71 02.80	+0 01	+1 05	+1 23	+0 51	0.3	0.2	0.0	- -	0.3	030	0.0	- -	0.2	193
1306	Chelsea River, west of bascule bridge...	10	42 23.07	71 02.53	+0 02	-0 26	+0 43	-0 46	0.2	0.2	0.0	- -	0.2	048	0.0	- -	0.2	240
1311	Chelsea River, below bascule bridge.....	10	42 23.03	71 01.70	+0 29	-0 15	+0 37	-0 04	0.2	0.2	0.0	- -	0.2	088	0.0	- -	0.3	272
1316	Mystic River Bridge, 0.1 n.mi. west of..	10	42 23.15	71 03.02	+0 31	-0 10	-0 46	-0 16	0.1	0.1	0.0	- -	0.1	267	0.0	- -	0.1	093
1321	Mystic River Bridge, northwest of.....	10	42 23.15	71 02.95	-0 20	+1 04	+0 22	-0 44	0.1	0.1	0.0	- -	0.1	300	0.0	- -	0.1	098
1326	City Point, 0.8 n.mi. SSE of.....	10	42 19.22	71 00.88	+0 13	+0 34	+1 19	+1 03	0.5	0.5	0.0	- -	0.6	248	0.1	170	0.6	069
1331	Squantum Point, 0.8 n.mi. northeast of..	10	42 18.63	71 01.70	+0 18	+0 35	+1 16	+0 51	0.4	0.4	0.0	- -	0.4	216	0.0	- -	0.5	036
1336	Squantum Point, 0.4 n.mi. NNE of.....	10	42 18.38	71 02.23	+0 14	-0 06	+0 41	+0 52	0.4	0.4	0.0	- -	0.4	266	0.0	- -	0.5	091
1341	Neponset River.....	10	42 18.25	71 02.58	-0 25	-0 32	+0 45	+0 35	0.4	0.4	0.0	- -	0.4	218	0.0	- -	0.4	025
	BOSTON HARBOR-NANTASKET ROADS																	
1346	Lovell Island, 0.1 n.mi. south of.....	10	42 19.40	70 55.48	+0 08	-1 54	-0 30	+0 17	0.6	0.9	0.2	205	0.7	275	0.2	169	1.0	092
						-0 43			0.4	- -			0.4	263				
						+1 08			0.5	- -			0.6	251				
	...do.....	24	42 19.40	70 55.48	-0 25	-2 17	-0 20	-1 01	0.7	0.7	0.0	- -	0.7	294	0.0	- -	0.9	095
						-1 05			0.4	- -			0.4	282				
						+0 19			0.5	- -			0.6	279				
1351	Georges Island, northeast of.....	10	42 19.37	70 55.53	-0 13	-1 47	-0 29	-2 10	0.7	0.6	0.2	191	0.7	279	0.2	183	0.8	100
						-0 53			0.6	- -			0.6	275				
						+0 15			0.7	- -			0.8	274				
1356	Georges Island, north of.....	25	42 19.42	70 55.67	-1 25	-1 41	-0 01	-1 46	0.7	0.8	0.0	- -	0.8	298	0.0	- -	0.9	112
	...do.....					-0 45			0.7	- -			0.7	299				
	...do.....					+0 25			0.8	- -			0.8	305				
1361	Gallops Island, 0.2 n.mi. SSE of.....	10	42 19.38	70 55.93	+0 01	+0 16	+0 01	+0 21	1.0	0.8	0.0	- -	1.1	243	0.0	- -	1.0	062
1366	Gallops Island, 0.1 n.mi. southeast of..	10	42 19.45	70 55.90	-0 01	-0 38	+0 04	+0 27	0.9	0.9	0.0	- -	0.9	225	0.2	130	1.0	063
	...do.....	35	42 19.45	70 55.90	-0 07	-0 38	+0 17	+0 15	0.8	0.7	0.0	- -	0.9	255	0.0	- -	0.9	052
1371	Gallops Island, The Narrows.....	20	42 19.62	70 56.03	-1 25	-0 11	+1 13	-0 46	0.4	0.1	0.0	- -	0.5	135	0.0	- -	0.2	262
1376	Lovell Island, The Narrows.....	10	42 19.67	70 56.03	+0 43	+0 34	+1 00	-0 05	0.4	0.4	0.2	172	0.6	128	0.0	- -	0.5	293
1381	Lovell Island, west of.....	10	42 19.72	70 55.97	+0 16	-0 26	+0 49	+0 29	0.4	1.0	0.2	232	0.4	134	0.0	- -	1.2	299
	...do.....	24	42 19.72	70 55.97	-0 04	+0 14	+1 22	+0 02	0.4	1.0	0.0	- -	0.4	136	0.0	- -	1.2	313
1386	Georges Island, 0.5 n.mi. ESE of.....	10	42 19.17	70 54.97	+0 32	+0 46	+1 00	+0 13	0.9	1.0	0.2	165	1.0	244	0.0	- -	1.2	065
1391	Georges Island, 0.4 n.mi. east of.....	10	42 19.12	70 54.97	-0 17	+0 04	+0 08	-0 11	1.0	0.9	0.3	180	1.0	248	0.0	- -	1.1	057
1396	Georges Island, 0.5 n.mi. southeast of..	10	42 18.62	70 55.00	-0 11	+0 56	+0 45	+0 03	1.1	1.2	0.2	132	1.2	243	0.2	151	1.5	070
	...do.....	25	42 18.62	70 55.00	-0 11	+0 05	+0 47	+0 01	1.0	1.2	0.0	- -	1.1	247	0.0	- -	1.4	078
1401	Georges Island, 0.3 n.mi. SSE of.....	10	42 18.78	70 55.55	+0 21	+0 24	+0 34	+0 41	1.0	1.0	0.1	159	1.1	234	0.4	126	1.2	069
	...do.....	35	42 18.78	70 55.55	+0 08	+0 35	+0 58	+0 02	0.9	0.7	0.0	- -	1.0	237	0.2	346	0.8	073
1406	Georges Island, 0.4 n.mi. SSE of.....	10	42 18.67	70 55.53	+0 16	+0 53	+0 32	-2 03	1.2	0.8	0.2	145	1.3	236	0.3	161	0.9	046
								-1 40	- -	0.7							0.9	074
								+0 36	- -	1.0							1.2	070
	...do.....	35	42 18.67	70 55.53	+0 14	+0 56	+0 56	0 00	1.1	0.8	0.0	- -	1.2	240	0.1	347	1.0	065
1411	Nubble Channel.....	10	42 19.73	70 56.93	-0 12	+0 45	+0 45	+0 43	0.7	0.6	0.1	282	0.8	187	0.2	139	0.8	006
1416	Georges Island, 0.2 n.mi. WSW of.....	10	42 19.02	70 56.10	See Rotary tidal currents, table 2.													
	...do.....	20	42 19.02	70 56.10	See Rotary tidal currents, table 2.													
1421	Hull Gut.....	10	42 18.20	70 55.60	-0 10	+0 35	-0 01	+0 25	1.1	1.5	0.1	073	1.2	163	0.0	- -	1.8	350
	...do.....	25	42 18.20	70 55.60	-0 09	+0 40	-0 01	+0 25	1.2	1.6	0.1	073	1.3	153	0.0	- -	2.0	354

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BOSTON HARBOR-NANTASKET ROADS Time meridian, 75°W				on BOSTON HARBOR, p.16													
1426	Peddocks Island, 0.2 n.mi. north of.....	10	42 18.32	70 56.00	+0 37	+1 22	+1 20	-0 29	0.9	0.6	0.0	- -	1.0	246	0.0	- -	0.7	257
	...do.....	25	42 18.32	70 56.00	+0 07	+1 04	+1 30	-0 53	0.9	0.5	0.1	337	1.0	255	0.1	178	0.6	060
1431	Peddocks Island, 0.3 n.mi. northwest of.	10	42 18.40	70 56.13	+0 51	+1 25	+1 25	+0 56	1.0	0.8	0.0	- -	1.1	245	0.0	- -	1.0	060
	...do.....	25	42 18.40	70 56.13	+0 21	+1 09	+1 32	+0 15	0.9	0.5	0.2	342	1.0	250	0.0	- -	0.6	055
	...do.....	40	42 18.40	70 56.13	-0 08	+1 06	+1 45	-0 47	0.9	0.4	0.0	- -	1.0	261	0.0	- -	0.5	060
1436	Rainsford I. and Windmill Pt., between..	10	42 18.52	70 56.32	+0 37	+0 54	+0 34	+0 46	0.7	0.8	0.0	- -	0.8	251	0.3	168	1.0	056
	...do.....	25	42 18.52	70 56.32	+0 22	+1 19	+1 36	+0 05	0.7	0.4	0.0	- -	0.8	256	0.2	329	0.5	053
1441	Gallops Island, 0.5 n.mi. southwest of..	10	42 19.13	70 56.82	+0 50	+0 14	-0 57	+0 47	0.6	0.6	0.2	165	0.6	238	0.3	204	0.7	074
	...do.....	25	42 19.13	70 56.82	+0 17	+0 17	-0 28	+1 10	0.4	0.3	0.0	- -	0.5	237	0.0	- -	0.4	072
1446	Rainsford Island, 0.2 n.mi. NE of.....	10	42 18.90	70 56.95	-0 17	+0 18	+0 19	-1 01	0.5	0.4	0.0	- -	0.6	239	0.1	143	0.5	084
	...do.....	20	42 18.90	70 56.95	-1 52	+0 41	+0 17	-1 12	0.4	0.2	0.0	- -	0.5	237	0.0	- -	0.3	086
1451	Rainsford Island, 0.4 n.mi. SE of.....	10	42 18.50	70 56.62	+0 01	-0 49	+1 02	+0 01	0.6	0.6	0.0	- -	0.6	225	0.2	127	0.8	055
1456	Long I. and Rainsford I., between.....	10	42 18.70	70 57.78	+0 31	+0 13	+0 39	+0 55	0.6	0.7	0.0	- -	0.7	226	0.0	- -	0.9	049
	...do.....	25	42 18.70	70 57.78	+0 22	+0 38	+0 43	-0 01	0.6	0.6	0.0	- -	0.6	229	0.1	322	0.8	033
1461	West Head, Peddocks I., 0.1 n.mi. W of..	10	42 17.45	70 57.22	-1 21	+0 57	+1 29	-1 04	1.0	0.7	0.0	- -	1.1	208	0.0	- -	0.9	018
	...do.....	30	42 17.45	70 57.22	-1 26	+1 03	+1 20	-0 48	0.8	0.5	0.0	- -	0.9	198	0.0	- -	0.6	038
1466	Sunken Ledge, 0.2 n.mi. northwest of....	10	42 17.87	70 57.87	+0 26	-0 36	+0 33	+0 56	0.4	0.5	0.3	304	0.4	223	0.1	307	0.7	016
	...do.....	20	42 17.87	70 57.87	+0 28	+0 24	+0 38	-0 02	0.3	0.4	0.2	299	0.3	236	0.2	335	0.5	030
1471	West Head, Long I., 0.4 n.mi. south of..	10	42 18.32	70 58.28	+0 33	+0 46	+1 05	+0 29	0.6	0.5	0.0	- -	0.7	231	0.0	- -	0.6	060
	...do.....	20	42 18.32	70 58.28	+0 15	+1 00	+1 00	+0 25	0.5	0.4	0.0	- -	0.5	231	0.0	- -	0.5	043
1476	Moon Head, 0.4 n.mi. east of.....	10	42 18.38	70 58.73	-0 09	-1 54	-0 25	-1 31	0.3	0.3	0.3	310	0.3	259	0.0	- -	0.4	080
1481	West Head, 0.2 n.mi. southwest of.....	10	42 17.15	70 57.18	-0 04	+0 21	+1 05	+0 09	1.2	1.2	0.0	- -	1.4	167	0.0	- -	1.4	322
1486	Nut Island, 0.4 n.mi. NNE of.....	10	42 17.08	70 57.22	+0 20	+0 25	+1 06	+0 43	1.2	1.2	0.2	223	1.3	158	0.0	- -	1.4	312
	...do.....	20	42 17.08	70 57.22	+0 20	+0 29	+1 13	+0 41	1.1	1.2	0.1	220	1.2	155	0.0	- -	1.4	321
1491	Nut Island, 0.2 n.mi. NNE of.....	10	42 16.98	70 57.32	+0 40	+0 35	+1 20	+0 43	1.1	1.0	0.1	245	1.2	146	0.0	- -	1.2	309
	...do.....	20	42 16.98	70 57.32	+0 39	+0 38	+1 30	+0 28	0.9	0.8	0.1	216	1.0	131	0.0	- -	1.0	303
1496	Peddocks Island, west of.....	10	42 17.23	70 57.92	-0 33	+0 15	+0 01	-0 31	0.4	0.3	0.2	305	0.5	187	0.0	- -	0.4	358
1501	Moon Head, 0.9 n.mi. southeast of.....	10	42 17.50	70 58.93	+0 39	+1 04	+1 32	+0 44	0.3	0.3	0.2	314	0.3	227	0.2	112	0.3	033
1506	Squantum, 0.3 n.mi. southeast of.....	8	42 17.40	71 00.10	Current weak and variable													
	BOSTON HARBOR-HINGHAM BAY																	
1511	Weir River entrance.....	10	42 16.53	70 52.83	+0 18	+0 34	+0 47	+0 42	0.7	0.6	0.0	- -	0.7	076	0.0	- -	0.8	272
1516	Strawberry Hill, 0.4 n.mi. west of.....	6	42 17.40	70 53.60	Current weak and variable													
1521	Crow Point, 0.2 n.mi. north of.....	10	42 15.97	70 53.70	+0 14	-0 41	+0 09	+1 42	0.3	0.2	0.0	- -	0.3	146	0.0	- -	0.3	319
1526	Bumkin Island, 0.1 n.mi. west of.....	10	42 16.85	70 54.37	+0 07	+1 13	+0 42	+1 04	0.6	0.6	0.0	- -	0.6	166	0.2	241	0.8	320
	...do.....	20	42 16.85	70 54.37	-0 14	+1 11	+1 02	+0 53	0.5	0.5	0.1	248	0.5	161	0.1	274	0.6	316
1531	Windmill Point, 0.7 n.mi. SSE of.....	10	42 17.55	70 54.97	+0 07	+0 35	+0 16	-1 29	1.0	0.4	0.0	- -	1.1	128	0.4	083	0.4	350
	...do.....	25	42 17.55	70 54.97	+0 02	+0 50	+1 46	+1 01	0.9	0.1	0.0	- -	1.0	136	0.1	015	0.2	315
1536	Bumkin Island, 0.4 n.mi. west of.....	10	42 16.83	70 54.75	-0 14	+0 46	+0 28	-2 46	0.5	0.2	0.0	- -	0.5	195	0.2	263	0.3	303
1541	Peddocks Island, east of.....	10	42 17.50	70 55.52	See Rotary tidal currents, table 2.													
	...do.....	20	42 17.50	70 55.52	See Rotary tidal currents, table 2.													
1546	Sheep Island, 0.3 n.mi. west of.....	10	42 16.87	70 55.98	+0 20	+1 09	+1 20	+1 01	0.9	0.4	0.2	245	1.0	075	0.3	328	0.4	305
	...do.....	25	42 16.87	70 55.98	+1 19	+1 09	+1 37	-0 10	0.8	0.3	0.2	150	0.8	082	0.0	- -	0.3	300
1551	Grape Island and Lower Neck, between....	10	42 15.87	70 55.50	-0 14	-1 21	+0 11	+0 23	0.6	0.7	0.0	- -	0.7	094	0.0	- -	0.9	281
1556	Grape Island.....	10	42 16.08	70 55.88	-0 38	+0 08	+0 43	-0 06	0.4	0.3	0.0	- -	0.4	203	0.0	- -	0.4	345
1561	Pig Rock, north of.....	10	42 16.93	70 56.45	+0 49	-0 41	-0 10	+0 59	0.6	0.8	0.0	- -	0.7	078	0.0	- -	1.0	290
	...do.....	25	42 16.93	70 56.45	+0 44	+0 19	+1 26	+0 34	0.5	0.6	0.0	- -	0.6	082	0.1	019	0.8	293

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimdm before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	BOSTON HARBOR-HINGHAM BAY Time meridian, 75°W				on BOSTON HARBOR, p.16									
1566	Pig Rock, northwest of	20	42 16.88	70 56.55	+1 13	+0 47	+1 58	+1 12	0.9	0.7	0.0 - -	1.0 085	0.0 - -	0.8 283
1571	Stodders Neck, Weymouth Back River	10	42 15.20	70 55.65	-0 23	+0 49	+0 39	-0 31	0.5	0.2	0.0 - -	0.5 268	0.0 - -	0.3 093
1576	Gull Point, 0.4 n.mi. ESE of	10	42 15.18	70 56.82	-0 10	-0 37	+0 13	+0 07	0.4	0.4	0.0 - -	0.4 229	0.0 - -	0.4 069
	...do	25	42 15.18	70 56.82	-0 40	-0 47	+0 47	+0 19	0.4	0.1	0.0 - -	0.4 235	0.0 - -	0.2 042
1581	Kings Cove, off	10	42 14.83	70 57.65	-0 13	-1 26	+0 02	-0 46	0.3	0.3	0.0 - -	0.3 242	0.1 014	0.4 063
1586	Germantown Point	20	42 14.78	70 57.88	+0 14	+0 49	+0 54	+0 13	0.3	0.3	0.0 - -	0.3 269	0.0 - -	0.4 070
1591	Pine Point, southeast of	10	42 14.28	70 58.08	-0 58	+1 00	+0 53	-1 16	0.2	0.1	0.0 - -	0.2 149	0.0 - -	0.1 303
1596	Philip Head, Town River Bay	10	42 15.00	70 58.22	+0 20	+1 28	+1 16	+0 29	0.3	0.2	0.0 - -	0.4 289	0.0 - -	0.3 095
1601	Hole Point Reach, Town River	10	42 15.23	70 58.78	Negligible current									
	CAPE COD BAY													
1606	Race Point, 7 miles north of		42 11	70 16	-0 01	-0 01	-0 01	-0 01	1.4	1.2	0.0 - -	1.5 290	0.0 - -	1.5 - -
1611	Race Point, 1 mile northwest of		42 05	70 15	-0 06	-0 06	-0 06	-0 06	0.9	0.8	0.0 - -	1.0 226	0.0 - -	0.9 061
1616	Provincetown Harbor		42 03	70 10	+0 04	+0 04	+0 04	+0 04	0.5	0.3	0.0 - -	0.6 315	0.0 - -	0.4 135
1621	Wellfleet Harbor		41 54	70 03	+0 09	+0 09	+0 09	+0 09	0.6	0.4	0.0 - -	0.7 020	0.0 - -	0.5 200
1626	Barnstable Harbor		41 43.6	70 16.4	+0 19	+0 58	+0 22	+0 29	1.1	1.2	0.0 - -	1.2 192	0.0 - -	1.4 004
1631	Sandwich Harbor		41 46	70 29	Current weak and variable									
	Cape Cod Canal (see Index)		- - - -	- - - -	- - -	- - -	- - -	- - -	- -	- -	- - - -	- - - -	- - - -	- - - -
1636	Sagamore Beach		41 48	70 31	Current weak and variable									
1641	Ellisville Harbor, 1 mile east of		41 51	70 30	+0 14	+0 14	+0 14	+0 14	0.3	0.2	0.0 - -	0.3 200	0.0 - -	0.3 020
1646	Manomet Point		41 56	70 32	+0 04	+0 04	+0 04	+0 04	1.0	0.7	0.0 - -	1.1 155	0.0 - -	0.9 010
1651	Gurnet Point, 1 mile east of		42 00	70 35	-0 06	-0 06	-0 06	-0 06	1.3	0.8	0.0 - -	1.4 250	0.0 - -	1.0 - -
1656	Plymouth Harbor		41 58	70 39	+0 04	+0 04	+0 04	+0 04	0.5	0.3	0.0 - -	0.5 245	0.0 - -	0.4 010
1661	Farnham Rock, 1 mile east of		42 06	70 35	-0 21	-0 21	-0 21	-0 21	1.0	0.8	0.0 - -	1.1 180	0.0 - -	0.9 010
	MASSACHUSETTS COAST-Continued				on POLLOCK RIP CHANNEL, p.28									
1666	Nauset Beach Light, 5 miles northeast of		41 56	69 54	See table 5.									
1671	Georges Bank and vicinity		- - - -	- - - -	See table 5.									
1676	Davis Bank		- - - -	- - - -	See table 5.									
1681	Monomoy Point, 23 miles east of		41 35	69 30	See table 5.									
1686	Nantucket Shoals		40 37	69 37	See table 5.									
1691	Nantucket Island, 28 miles east of		41 20	69 21	See table 5.									
1696	Old Man Shoal, Nantucket Shoals		41 13.6	69 59.0	+1 23	+1 03	+1 17	+1 14	0.9	0.9	0.0 - -	1.9 080	0.0 - -	1.6 225
1701	Miacomet Pond, 3.0 miles SSE of		41 11.4	70 05.8	+2 19	+2 03	+2 22	+2 16	0.6	0.8	0.0 - -	1.3 080	0.0 - -	1.4 280
1706	Tuckernuck Island, 4.2 miles SSW of		41 13.57	70 16.90	+4 08	+3 13	+2 17	+3 56	0.3	0.6	0.0 - -	0.5 090	0.0 - -	1.0 280
1711	Martha's Vineyard, 1.4 miles S of <1>		41 19.50	70 39.90	- - -	-2 53	- - -	-2 47	0.1	0.1	0.0 - -	0.3 230	0.0 - -	0.3 095
	NANTUCKET SOUND ENTRANCE													
1716	Pollock Rip Channel, east end		41 33.9	69 55.4	-0 14	-0 39	-0 23	-0 38	1.0	1.1	0.0 - -	2.0 053	0.0 - -	1.8 212
1721	POLLOCK RIP CHANNEL (Butler Hole)		41 33	69 59	Daily predictions						0.0 - -	2.0 037	0.0 - -	1.8 226
1726	Great Round Shoal Channel		- - - -	- - - -	See table 5.									

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	NANTUCKET SOUND Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
1731	Monomoy Pt., channel 0.2 mile west of...		41 33.0	70 01.3	0 00	+0 39	+0 18	-0 23	0.8	1.2	0.0	- -	1.7	170	0.0	- -	2.0	346
1736	Chatham Roads.....		41 38.6	70 01.7	Current weak and variable													
1741	Stage Harbor, west of Morris Island.....		41 39.4	69 58.5	+3 07	+1 29	+2 24	+4 28	0.3	0.6	0.0	- -	0.5	335	0.0	- -	1.0	144
1746	Dennis Port, 2.2 miles south of.....		41 37.0	70 06.9	+1 28	+0 52	+0 27	+1 04	0.2	0.2	0.1	138	0.3	077	0.1	052	0.3	269
1751	Monomoy Point, 6 miles west of.....		41 33.5	70 09.0	+1 22	+1 52	+1 09	+1 22	0.2	0.3	0.1	194	0.5	090	0.1	256	0.5	275
1756	Handkerchief Lighted Whistle Buoy "H"...		41 29.3	70 04.0	+1 08	+1 10	+0 49	+0 59	0.6	0.8	0.0	- -	1.3	080	0.0	- -	1.3	251
1761	Halfmoon Shoal, 1.9 miles northeast of..		41 29.05	70 11.55	+1 42	+1 49	+1 24	+1 44	0.4	0.3	0.0	- -	0.8	110	0.0	- -	0.6	265
1766	Halfmoon Shoal, 3.5 miles east of.....		41 28.1	70 09.2	+1 13	+1 23	+1 06	+1 11	0.5	0.6	0.0	- -	1.1	088	0.0	- -	1.0	295
1771	Great Point, 0.5 mile west of.....		41 23.6	70 03.7	+0 25	+1 37	+1 13	+0 33	0.6	0.7	0.0	- -	1.1	029	0.0	- -	1.2	195
1776	Great Point, 3 miles west of.....		41 23.4	70 06.8	+1 15	+1 23	+0 51	+1 08	0.4	0.5	0.0	- -	0.8	066	0.0	- -	0.8	248
1781	Tuckernuck Shoal, off east end.....		41 24.3	70 10.4	+1 22	+1 34	+1 09	+1 10	0.5	0.5	0.3	000	0.9	113	0.3	186	0.9	287
1786	Brant Point, 2 miles NNW of <1>.....		41 19.25	70 06.30	- - -	+1 43	- - -	+2 36	0.2	0.2	0.0	- -	0.3	090	0.0	- -	0.3	275
1791	Nantucket Harbor entrance channel.....		41 18.4	70 06.0	+3 22	+1 55	+2 44	+3 58	0.6	0.9	0.0	- -	1.2	171	0.0	- -	1.5	350
1796	Eel Pt., Nantucket I. 2.5 miles NE of...		41 19.3	70 10.2	+1 13	+1 12	+1 02	+1 15	0.3	0.2	0.0	- -	0.6	094	0.0	- -	0.4	284
1801	Muskeget I., channel 1 mile northeast of		41 21.0	70 17.1	+1 29	+0 45	+0 57	+0 56	0.6	0.9	0.0	- -	1.1	108	0.0	- -	1.5	295
1806	Muskeget Rock, 1.3 miles southwest of...		41 19.2	70 23.6	+1 10	+0 23	+0 57	+0 18	0.6	0.6	0.0	- -	1.3	024	0.0	- -	1.0	192
1811	Muskeget Channel.....		41 20.9	70 25.2	+1 40	+0 38	+1 29	+1 02	1.9	1.9	0.0	- -	3.8	021	0.0	- -	3.3	200
1816	Wasque Point, 2.0 miles southwest of....		41 19.90	70 29.25	+1 30	+1 04	+1 11	+0 32	0.6	0.6	0.0	- -	1.3	075	0.0	- -	1.2	280
								+1 15		0.5							0.9	280
								+1 53		0.6							1.1	280
1821	Long Shoal-Norton Shoal, between.....		41 24.50	70 20.00	+1 31	+1 12	+1 26	+1 13	0.7	0.6	0.0	- -	1.4	100	0.0	- -	1.1	260
1826	Cape Page Lt., 1.7 miles SSE of.....		41 24.0	70 25.6	+0 58	-0 07	+0 49	+0 48	0.8	0.7	0.0	- -	1.6	025	0.0	- -	1.3	215
1831	Cross Rip Channel.....		41 26.9	70 17.5	+1 48	+1 48	+1 55	+1 59	0.6	0.5	0.0	- -	1.3	091	0.0	- -	0.9	272
1836	Cape Page Lt., 3.2 miles northeast of...		41 27.5	70 24.0	+2 42	+2 03	+2 33	+2 37	0.8	0.7	0.0	- -	1.6	095	0.0	- -	1.2	300
1841	Broken Ground-Horseshoe Shoal, between..		41 33.0	70 17.1	+1 46	+1 55	+1 15	+1 20	0.5	0.5	0.2	000	1.1	107	0.1	224	0.9	276
1846	Point Gammon, 1.2 miles south of.....		41 35.3	70 15.4	+1 15	+1 03	+1 06	+1 02	0.5	0.6	0.0	- -	1.1	105	0.0	- -	1.0	260
1851	Hyannis Harbor, entrance off breakwater.		41 37.4	70 17.5	Current weak and variable													
1856	Lewis Bay entrance channel.....		41 37.9	70 16.4	+2 46	+0 53	+2 44	+4 22	0.5	0.8	0.0	- -	0.9	004	0.0	- -	1.3	184
1861	Cotuit Bay entrance (Bluff Point).....		41 36.6	70 25.8	+2 44	+2 33	+2 51	+3 35	0.3	0.4	0.0	- -	0.5	035	0.0	- -	0.7	218
1866	Wreck Shoal-Eldridge Shoal, between.....		41 32.0	70 25.7	+1 47	+1 32	+1 44	+1 45	0.8	0.8	0.0	- -	1.7	062	0.0	- -	1.4	245
1871	Hedge Fence Lighted Gong Buoy 22.....		41 28.3	70 29.0	+2 48	+2 34	+2 38	+2 44	0.7	0.7	0.0	- -	1.4	108	0.0	- -	1.2	268
1876	Cape Page Light, 1.4 miles west of.....		41 25.45	70 29.00	+2 13	+1 54	+1 26	+1 39	0.2	0.1	0.0	- -	0.3	095	0.0	- -	0.2	250
1881	Edgartown, Inner Harbor.....		41 23.4	70 30.5	+0 25	-1 04	+0 35	-0 20	0.6	0.6	0.0	- -	1.1	075	0.0	- -	1.1	270
						+0 38		+1 08	0.3	0.3			0.6	070			0.5	265
						+1 58		+1 52	0.4	0.4			0.8	075			0.7	260
1886	Katama Pt., 0.6 mi. NNW of, Katama B....		41 21.9	70 30.3	+0 12	-0 43	+0 20	-0 31	0.3	0.3	0.0	- -	0.6	325	0.0	- -	0.5	180
						+0 47		+1 12	0.2	0.1			0.3	325			0.2	195
						+1 46		+1 57	0.2	0.2			0.4	325			0.3	175
1891	East Chop-Squash Meadow, between.....		41 27.9	70 32.2	+2 07	+0 55	+1 43	+2 04	0.7	1.1	0.0	- -	1.4	131	0.0	- -	1.8	329
1896	East Chop, 1 mile north of.....		41 29.1	70 33.5	+2 40	+1 52	+2 17	+2 11	1.1	1.3	0.0	- -	2.2	116	0.0	- -	2.2	297
1901	Vineyard Haven.....		41 28.1	70 35.2	Current weak and variable													
1906	West Chop, 0.8 mile north of.....		41 29.6	70 35.7	+2 49	+1 58	+2 20	+2 35	1.6	1.8	0.0	- -	3.1	096	0.0	- -	3.0	282
1911	Hedge Fence-L'Hommedieu Shoal, between..		41 30.3	70 32.2	+2 27	+1 38	+2 01	+1 52	1.0	1.3	0.0	- -	2.1	106	0.0	- -	2.2	276
1916	Waquoit Bay entrance.....		41 32.9	70 31.8	+3 21	+2 14	+3 40	+4 01	0.8	0.8	0.0	- -	1.5	348	0.0	- -	1.4	203
1921	L'Hommedieu Shoal, north of west end....		41 31.6	70 34.6	+2 30	+2 03	+2 12	+2 11	1.2	1.4	0.0	- -	2.3	080	0.0	- -	2.3	268
1926	Nobska Point, 1.8 miles east of.....		41 31.1	70 37.1	+2 13	+1 45	+1 55	+1 49	1.2	1.0	0.0	- -	2.3	063	0.0	- -	1.7	240

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	VINEYARD SOUND Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
1931	West Chop, 0.2 mile west of		41 29.0	70 36.6	+1 19	+1 34	+1 50	+1 16	1.3	0.8	0.0	- -	2.7	059	0.0	- -	1.4	241
1936	Nobska Point, 1 mile southeast of		41 30.1	70 38.6	+2 33	+2 15	+2 25	+2 19	1.3	1.4	0.0	- -	2.6	071	0.0	- -	2.4	259
1941	Norton Point, 0.5 mile north of		41 28.1	70 39.9	+1 55	+1 44	+2 01	+1 12	1.7	1.4	0.0	- -	3.4	050	0.0	- -	2.4	240
1946	Tarpaulin Cove, 1.5 miles east of		41 28.3	70 43.5	+2 49	+2 07	+2 12	+2 33	1.0	1.4	0.0	- -	1.9	055	0.0	- -	2.3	232
1951	Robinsons Hole, 1.2 miles southeast of		41 26.1	70 46.8	+2 30	+1 51	+2 11	+2 02	1.0	1.2	0.0	- -	1.9	060	0.0	- -	2.1	240
1956	Gay Head, 3 miles northeast of		41 23.1	70 47.0	+2 25	+1 50	+1 42	+2 11	0.5	0.8	0.0	- -	0.9	081	0.0	- -	1.3	238
1961	Menemsha Bight <6>		41 21.3	70 46.3														
1966	Gay Head, 3 miles north of		41 24.1	70 51.2	+2 13	+1 24	+1 55	+1 17	0.6	0.7	0.0	- -	1.1	074	0.0	- -	1.2	255
1971	Gay Head, 1.5 miles northwest of		41 21.8	70 51.8	+1 30	+0 54	+1 42	+1 16	1.0	1.2	0.0	- -	2.0	012	0.0	- -	2.0	249
1976	Cuttyhunk Island, 3.2 miles southwest of		41 23	71 00	See table 5.													
1981	Browns Ledge		41 19.8	71 05.9	See table 5.													
	VINEYARD SOUND-BUZZARDS BAY				on CAPE COD CANAL, p.22													
	Woods Hole																	
1986	South end		41 30.8	70 40.2	+0 29	+1 40	+1 17	+0 08	0.4	0.2	0.0	- -	1.5	135	0.0	- -	1.1	318
1991	0.1 mile SW of Devils Foot Island		41 31.2	70 41.1	+0 20	+1 41	+0 55	+0 31	0.9	0.8	0.0	- -	3.5	094	0.0	- -	3.6	276
1996	North end		41 31.5	70 41.6	-0 29	+1 25	+1 09	-0 04	0.2	0.2	0.0	- -	0.8	160	0.0	- -	0.7	007
	Robinsons Hole																	
2001	South end		41 26.7	70 48.2	+1 14	+1 42	+1 20	+1 01	0.2	0.2	0.0	- -	0.8	162	0.0	- -	1.0	339
2006	Middle		41 27.0	70 48.4	+1 30	+2 00	+1 02	+0 47	0.7	0.6	0.0	- -	2.8	146	0.0	- -	2.9	316
2011	North end		41 27.4	70 48.7	+1 54	+2 00	+0 52	+1 17	0.2	0.3	0.0	- -	1.0	161	0.0	- -	1.2	338
	Quicks Hole																	
2016	South end		41 26.3	70 50.5	+2 18	+1 42	+1 17	+0 53	0.5	0.4	0.0	- -	1.9	140	0.0	- -	2.0	300
2021	Middle		41 26.6	70 50.9	+2 21	+2 00	+1 26	+0 41	0.6	0.5	0.0	- -	2.5	167	0.0	- -	2.2	339
2026	North end		41 27.1	70 51.0	+2 42	+2 06	+1 44	+0 23	0.5	0.6	0.0	- -	2.0	165	0.0	- -	2.6	002
2031	Canapitsit Channel		41 25.4	70 54.5	+2 03	+2 27	+1 02	+0 26	0.6	0.4	0.0	- -	2.6	156	0.0	- -	1.7	312
					on POLLOCK RIP CHANNEL, p.28													
2036	Westport River entrance		41 30.5	71 05.3	+0 09	-0 05	-0 26	-1 13	1.1	1.5	0.0	- -	2.2	290	0.0	- -	2.5	108
	BUZZARDS BAY <7>																	
2041	Gooseberry Neck, 2 miles SSE of		41 27	71 01	See table 5.													
2046	Ribbon Reef-Sow & Pigs Reef, between		41 25.3	70 58.2	-0 19	-1 31	-2 44	-1 54	0.4	0.7	0.0	- -	0.8	062	0.0	- -	1.2	237
2051	Penikese Island, 0.8 mile northwest of		41 27.9	70 56.2	-1 37	-0 25	-0 55	-0 57	0.6	0.6	0.0	- -	1.2	050	0.0	- -	1.1	254
2056	Penikese Island, 0.2 mile south of		41 26.6	70 55.5	-1 43	-0 15	-1 30	-2 39	0.4	0.5	0.0	- -	0.7	093	0.0	- -	0.9	287
2061	Gull I. and Nashawena I., between		41 26.2	70 54.2	-2 15	-0 57	-2 01	-2 41	0.5	0.6	0.0	- -	0.9	091	0.0	- -	1.1	247
2066	Weepecket Island, south of		41 30.4	70 44.3	-3 16	-1 07	-1 28	-2 27	0.4	0.4	0.0	- -	0.8	069	0.0	- -	0.6	255
2071	Quamquisset Harbor entrance		41 32.4	70 39.8	Current weak and variable						0.0	- -	0.4	- -	0.0	- -	0.3	- -
2076	West Falmouth Harbor entrance		41 36.5	70 39.3	Current weak and variable													
2081	Megansett Harbor		41 38.8	70 39.2	Current weak and variable													
2086	Abiels Ledge, 0.4 mile south of		41 41.1	70 40.4	+0 26	-0 36	-0 06	-0 23	0.4	0.6	0.0	- -	0.8	035	0.0	- -	1.0	216
2091	Dumpling Rocks, 0.2 mile southeast of		41 32.0	70 55.1	-1 43	-1 03	-1 32	-2 09	0.4	0.6	0.0	- -	0.8	066	0.0	- -	1.1	190
2096	Apponaganset Bay		41 35	70 57	Current weak and variable													
2101	Clarks Cove		41 36	70 55	Current weak and variable													
2106	New Bedford Harbor and approaches				Current weak and variable													

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BUZZARDS BAY <7> Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
2111	West Island and Long Island, between....		41 35.6	70 50.4	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.4	- -
2116	West Island, 1 mile southeast of.....	6	41 34.0	70 48.6	-0 43	-0 43	-1 28	-1 42	0.4	0.5	0.0	- -	0.7	079	0.0	- -	0.8	203
2121	Nasketucket Bay.....		41 37.1	70 50.2	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.3	- -
2126	Mattapoisett Harbor.....		41 38	70 47	Current weak and variable													
2131	Sippican Harbor.....		41 41	70 44	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.4	- -
2136	Wareham River, off Long Beach Point.....		41 44.0	70 43.0	-1 41	-0 31	-1 22	-1 23	0.3	0.4	0.0	- -	0.6	022	0.0	- -	0.6	202
2141	Wareham River, off Barneys Point.....		41 44.7	70 42.4	-1 49	-0 27	-1 22	-1 31	0.4	0.4	0.0	- -	0.7	010	0.0	- -	0.6	185
					on CAPE COD CANAL, p.22													
2146	Onset Bay, south of Onset Island.....		41 43.9	70 38.7	Current weak and variable													
2151	Onset Bay, south of Wickets Island.....		41 44.1	70 39.3	Current weak and variable													
	CAPE COD CANAL																	
2156	CAPE COD CANAL, railroad bridge.....		41 44.5	70 36.8	Daily predictions						0.0	- -	4.0	070	0.0	- -	4.5	250
2161	Bourne Highway bridge.....		41 45	70 35	-0 03	-0 01	-0 03	-0 04	0.8	0.9	0.0	- -	3.3	065	0.0	- -	4.0	245
2166	Bournedale.....		41 46	70 34	-0 07	-0 03	-0 09	-0 10	0.8	0.8	0.0	- -	3.4	030	0.0	- -	3.6	210
2171	Sagamore Bridge.....		41 46	70 33	-0 09	-0 04	-0 11	-0 13	0.7	0.6	0.0	- -	2.8	095	0.0	- -	2.5	275
2176	Cape Cod Canal, east end.....	15	41 46.5	70 30.0	-0 13	-0 06	-0 17	-0 19	0.6	0.6	0.0	- -	2.4	065	0.0	- -	2.6	245
	NARRAGANSETT BAY <8>				on POLLOCK RIP CHANNEL, p.28													
2181	Sakonnet River (except Narrows).....		- - - -	- - - -	Current weak and variable													
2186	Black Point, SW of, Sakonnet River.....	15	41 30.4	71 13.2	-2 54	-1 55	-2 13	-2 26	0.2	0.2	0.0	- -	0.4	012	0.0	- -	0.4	194
2191	Almy Point Bridge, south of, Sakonnet R.	15	41 37.3	71 13.2	-3 00	-2 10	-2 30	-3 13	0.2	0.8	0.0	- -	0.4	034	0.0	- -	1.5	180
2196	Tiverton, Stone bridge, Sakonnet R. <9>.		41 37.5	71 13.0	-2 58	-5 02	-2 26	-3 06	1.4	1.6	0.0	- -	2.7	010	0.0	- -	2.7	190
						-2 54			0.3				0.6	010				
						-0 36			1.3				2.5	010				
2201	Tiverton, RR. bridge, Sakonnet R. <10>..		41 38.3	71 12.9	-3 26	-5 06	-2 48	-3 41	1.2	1.4	0.0	- -	2.3	000	0.0	- -	2.4	180
						-3 04			- -				- -					
						-1 15			0.8				1.5	000				
2206	Common Fence Point, northeast of.....	10	41 39.5	71 12.5	-2 38	-4 50	-2 32	-2 41	0.1	0.2	0.0	- -	0.2	026	0.0	- -	0.3	210
						-2 25			0.0				0.1	058				
						-0 58			0.1				0.1	046				
2211	Brenton Point, 1.4 n.mi. southwest of...	7	41 25.9	71 22.6	-1 03	-0 38	-1 20	-1 04	0.2	0.4	0.0	- -	0.4	347	0.0	- -	0.6	170
2216	Castle Hill, west of, East Passage.....	15	41 27.4	71 22.7	-0 06	-0 42	-1 07	-0 29	0.4	0.7	0.0	- -	0.7	013	0.0	- -	1.2	237
2221	Bull Point, east of.....	10	41 28.8	71 21.0	-1 10	-0 47	-1 10	-1 33	0.6	0.8	0.0	- -	1.2	001	0.0	- -	1.5	206
2226	Mackerel Cove.....		41 28.5	71 22.8	Current weak and variable													
2231	Newport Harbor, S and E of Goat Island..		41 29	71 20	Current weak and variable													
2236	Rose Island, northeast of.....	15	41 30.2	71 19.9	-1 57	-0 07	-1 17	-2 08	0.4	0.5	0.0	- -	0.8	310	0.0	- -	1.0	124
2241	Rose Island, northwest of.....	15	41 30.4	71 21.1	-1 38	-0 26	-1 38	-1 39	0.4	0.5	0.1	105	0.7	007	0.1	102	1.0	190
2246	Rose Island, west of.....		41 29.8	71 21.0	-0 42	-0 34	-1 20	-1 28	0.4	0.6	0.0	- -	0.7	001	0.0	- -	1.0	172
2251	Gould Island, southeast of.....	7	41 31.5	71 20.2	-1 40	-1 28	-1 14	-1 16	0.3	0.4	0.0	- -	0.5	033	0.0	- -	0.7	217
2256	Gould Island, west of.....	15	41 31.9	71 21.5	-0 16	-0 32	-1 13	-1 07	0.3	0.4	0.0	- -	0.6	351	0.1	279	0.8	193
2261	Dyer Island-Carrs Point (between).....		41 34.5	71 17.8	-1 56	-1 13	-0 50	-1 37	0.4	0.4	0.0	- -	0.8	040	0.0	- -	0.6	236
2266	Conanicut Point, ENE of.....	15	41 34.5	71 20.5	-2 05	-0 24	-1 18	-1 13	0.2	0.2	0.1	111	0.4	018	0.1	106	0.4	183
2271	Dyer Island, west of.....	7	41 35.2	71 18.5	-1 04	-0 46	-0 53	-1 34	0.4	0.6	0.0	- -	0.8	023	0.0	- -	1.0	216

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	NARRAGANSETT BAY <8> Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
2276	Mount Hope Bridge	7	41 38.4	71 15.5	-1 22	-1 34	-1 08	-0 58	0.6	0.8	0.0	- -	1.1	047	0.0	- -	1.4	230
2281	Hog Island, northwest of	10	41 38.8	71 17.7	-2 16	-0 04	-0 30	-1 04	0.2	0.2	0.1	282	0.4	011	0.0	- -	0.4	199
2286	Common Fence Point, west of	10	41 39.0	71 14.7	-1 13	+0 08	-1 00	-0 37	0.2	0.4	0.0	- -	0.5	050	0.1	133	0.7	224
2291	Mount Hope Point, northeast of	10	41 40.8	71 12.7	-2 01	-0 20	-1 03	-0 57	0.2	0.2	0.0	- -	0.4	038	0.1	121	0.4	217
2296	Kickamuit R. (Narrows), Mt. Hope Bay		41 41.9	71 14.7	-2 04	-3 34	-1 19	-0 48	0.7	1.0	0.0	- -	1.4	000	0.0	- -	1.7	191
						-1 40			0.5				0.9	000				
						-0 04			0.9				1.7	000				
2301	Warren River entrance		41 42.7	71 17.8	Current weak and variable						0.0	- -	0.4	020	0.0	- -	0.3	200
2306	Warren, Warren River		41 43.7	71 17.3	-0 14	+0 11	-0 22	-1 05	0.5	0.5	0.0	- -	1.0	358	0.0	- -	0.9	171
2311	Beavertail Point, 0.8 mile northwest of		41 27.5	71 24.7	-0 11	-0 54	-1 31	-0 19	0.3	0.6	0.0	- -	0.5	003	0.0	- -	1.0	188
2316	Dutch Island, east of, West Passage	15	41 30.2	71 23.7	-3 02	-5 10	-2 37	-2 46	0.2	0.5	0.1	103	0.4	035	0.2	126	0.9	186
						-3 55			0.2				0.3	032				
						-1 10			0.3				0.6	038				
2321	Dutch Island and Beaver Head, between		41 29.8	71 24.2	-1 56	-1 32	-1 58	-1 47	0.5	0.6	0.0	- -	1.0	030	0.0	- -	1.0	233
2326	Dutch Island, west of	7	41 30.3	71 24.6	-1 33	-1 49	-1 21	-1 16	0.7	0.7	0.0	- -	1.3	014	0.0	- -	1.2	206
2331	Jamestown-North Kingstown Bridge	15	41 31.8	71 23.8	-2 16	-4 10	-1 22	-1 33	0.2	0.7	0.1	112	0.5	012	0.1	097	1.3	176
						-3 10			0.2				0.5	011				
						-0 31			0.4				0.8	007				
2336	Wickford Harbor		41 34	71 26	Current weak and variable								0.3	- -			0.3	- -
2341	Greenwich Bay entrance		41 40.0	71 23.6	Current weak and variable								0.3	- -			0.4	- -
2346	Patience Island, narrows east of		41 39.5	71 21.2	-2 41	-2 29	-2 44	-2 37	0.4	0.5	0.0	- -	0.7	354	0.0	- -	0.9	157
2351	Patience I. and Warwick Neck, between		41 39.8	71 22.4	-1 40	-1 21	-1 18	-1 13	0.3	0.5	0.0	- -	0.6	040	0.0	- -	0.8	224
2356	Nayatt Point, WNW of	10	41 43.7	71 21.6	-2 24	+0 47	-1 00	-1 11	0.1	0.1	0.0	- -	0.2	325	0.0	- -	0.2	128
2361	India Point RR. bridge, Seekonk R. <9>		41 49.0	71 23.3	-1 48	-4 02	-1 31	-1 06	0.5	0.8	0.0	- -	1.0	020	0.0	- -	1.4	180
						-2 30			0.2				0.4	020				
						-0 12			0.7				1.3	020				
2366	Fox Point, south of, Providence River	10	41 48.8	71 24.0	-3 02	+0 08	-0 27	-1 34	0.1	0.1	0.0	- -	0.2	343	0.0	- -	0.1	166
2371	Cold Spring Pt., Seekonk River <10>		41 49.6	71 22.8	-1 48	-4 14	-1 31	-1 02	0.4	0.8	0.0	- -	0.8	030	0.0	- -	1.4	210
						-2 24			0.1				0.2	030				
						-0 26			0.6				1.1	030				
	BLOCK ISLAND SOUND				on THE RACE, p.34													
	Point Judith																	
2376	Harbor of Refuge, south entrance		41 21.48	71 29.75	-2 23	-2 52	-2 26	-3 59	0.2	0.2	0.0	- -	0.6	329	0.0	- -	0.8	141
								-2 41		0.1							0.4	141
2381	Harbor of Refuge, west entrance		41 22	71 31				-1 56		0.2							0.7	141
2386	Pond entrance		41 23	71 31	See table 5.													
2391	2.4 miles southwest of		41 19.87	71 30.65	-3 23	-3 01	-3 16	-3 52	0.6	0.4	0.0	- -	1.8	351	0.0	- -	1.5	186
2396	4.5 miles southwest of		41 18	71 33	-0 48	-0 01	+0 18	-0 24	0.2	0.2	0.0	- -	0.7	258	0.0	- -	0.6	090
	Block Island				See table 5.													
2401	four miles north of		41 18	71 32	-0 30	+0 03	+0 35	+0 21	0.2	0.2	0.0	- -	0.8	285	0.0	- -	0.8	076
2406	Sandy Point, 2.1 miles NNE of	15	41 15.85	71 34.00	+0 09	-0 53	-0 30	-0 43	0.4	0.5	0.0	- -	1.0	296	0.0	- -	1.7	066
2411	Sandy Pt., 1.5 miles north of	7	41 15	71 34	-0 22	-0 30	-1 03	-0 50	0.6	0.5	0.0	- -	1.9	315	0.0	- -	2.1	063
2416	Clay Head, 1.2 miles ENE of	15	41 13.35	71 31.85	-2 20	-1 32	-0 37	-0 55	0.2	0.1	0.5	220	0.7	298	0.0	- -	0.5	164
2421	Old Harbor Pt., 0.5 mile southeast of		41 09	71 32	-0 10	-0 29	-0 34	+0 09	0.1	0.1	0.0	- -	0.2	336	0.0	- -	0.6	175
2426	Lewis Pt., 1.0 mile southwest of		41 08.20	71 37.30	-1 37	-1 08	-0 34	-1 13	0.7	0.5	0.0	- -	1.9	298	0.0	- -	1.8	136

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BLOCK ISLAND SOUND Time meridian, 75°W				on THE RACE, p.34													
	Block Island																	
2431	Lewis Pt.. 1.5 miles west of.....		41 09	71 38	-1 31	-1 15	-0 44	-0 57	0.4	0.4	0.0	- -	1.4	318	0.0	- -	1.7	170
2436	Great Salt Pond entrance.....		41 11.97	71 35.50	-4 18	-3 35	-3 34	-4 22	0.1	0.1	0.0	- -	0.3	165	0.0	- -	0.3	326
2441	Great Salt Pond ent., 1 mile NW of...	7	41 12	71 36	-0 52	-0 58	-1 50	-0 32	0.1	0.1	0.0	- -	0.4	158	0.0	- -	0.4	035
2446	Sandy Point, 0.4 mile west of <11>...		41 13.80	71 35.13	- - -	-1 24	- - -	-1 35	- -	0.2	0.0	- -			- -	- -	0.7	011
2451	Green Hill Point, 1.1 miles south of....		41 20.90	71 35.77	-1 06	-0 47	-0 34	-0 55	0.2	0.1	0.0	- -	0.6	258	0.0	- -	0.4	070
2456	Sandy Point, 4.1 miles northwest of.....	15	41 17.10	71 38.00	-0 04	+0 11	+0 22	+0 04	0.2	0.2	0.0	- -	0.7	270	0.0	- -	0.6	084
2461	Grace Point, 2.0 miles northwest of.....		41 12	71 38	See table 5.													
2466	Quonochontaug Beach, 1.1 miles S of.....		41 18.80	71 42.82	-0 52	+0 06	+0 37	-0 20	0.4	0.1	0.0	- -	1.1	248	0.0	- -	0.4	078
2471	Quonochontaug Beach, 3.8 miles S of.....	15	41 16.35	71 43.00	-0 05	-0 06	+0 29	+0 08	0.2	0.2	0.0	- -	0.7	243	0.0	- -	0.6	058
2476	Lewis Point, 6.0 miles WNW of.....	15	41 11.60	71 44.20	+0 51	+0 40	+0 06	+0 35	0.2	0.3	0.0	- -	0.6	286	0.0	- -	1.2	097
2481	Southwest Ledge.....		41 07	71 42	-0 33	-0 33	-0 10	-0 08	0.5	0.5	0.0	- -	1.5	321	0.0	- -	2.1	141
2486	Southwest Ledge, 2.0 miles west of.....	15	41 06.80	71 43.00	+0 02	+0 10	+0 01	-0 41	0.5	0.5	0.0	- -	1.5	354	0.0	- -	1.9	168
2491	Watch Hill Point, 2.2 miles east of.....		41 18.16	71 48.60	-0 37	-0 08	+0 35	-0 21	0.4	0.2	0.0	- -	1.2	260	0.0	- -	0.7	086
2496	Watch Hill Point, 5.2 miles SSE of.....	15	41 13.20	71 49.00	+0 26	+0 18	+0 29	+0 12	0.4	0.3	0.0	- -	1.2	265	0.0	- -	1.2	064
2501	Montauk Point, 5.4 miles NNE of.....	15	41 09.55	71 49.48	+0 25	-0 03	-0 47	+0 08	0.4	0.5	0.0	- -	1.1	279	0.0	- -	1.6	079
2506	Montauk Point, 1.2 miles east of.....		41 04.50	71 49.80	-1 30	-1 09	-0 48	-1 53	1.0	0.8	0.0	- -	2.8	346	0.0	- -	2.8	162
2511	Montauk Point, 1 mile northeast of.....		41 05	71 51	-2 02	-1 29	-1 10	-1 41	0.7	0.4	0.0	- -	2.4	356	0.0	- -	1.9	145
2516	Wicopesset Island, 1.1 miles SSE of.....		41 16.50	71 54.80	-1 02	-0 10	+0 39	-0 07	0.5	0.2	0.0	- -	1.5	250	0.0	- -	0.8	073
2521	East Pt., Fishers I., 4.1 miles S of....	15	41 13.40	71 55.50	+0 42	+0 32	+0 09	+0 12	0.3	0.5	0.0	- -	0.9	236	0.0	- -	1.8	073
2526	Cerberus Shoal, 1.5 miles east of.....	15	41 10.45	71 55.17	-0 23	-0 15	-0 33	-0 52	0.4	0.5	0.0	- -	1.1	256	0.0	- -	1.8	092
2531	Shagwong Reef & Cerberus Shoal, between.		41 07.90	71 55.50	-0 38	-0 47	-0 35	-0 57	0.6	0.5	0.0	- -	1.9	241	0.0	- -	1.8	056
2536	Montauk Harbor entrance.....	6	41 04.78	71 56.35	-2 25	-2 47	-3 12	-4 49	0.4	0.2	0.0	- -	1.2	226	0.0	- -	0.6	033
								-2 32		0.1							0.2	024
								-0 44		0.2							0.5	353
2541	Mt. Prospect, 0.6 mile SSE of.....	15	41 14.75	71 59.80	-0 42	-0 06	0 00	-0 59	0.6	0.5	0.0	- -	1.7	275	0.0	- -	1.6	054
2546	Cerberus Shoal and Fishers I., between..	7	41 13	71 58	-0 57	-0 05	+0 11	-0 06	0.4	0.3	0.0	- -	1.3	264	0.0	- -	1.3	096
2551	Little Gull Island, 3.7 miles ESE of....		41 10.7	72 02.1	See table 5.													
2556	Gardiners Island, 3 miles northeast of..	10	41 07.9	72 02.0	-0 45	-0 56	-0 21	-0 26	0.3	0.2	0.0	- -	0.9	305	0.0	- -	1.0	138
2561	Eastern Plain Point, 1.2 miles N of.....		41 07.12	72 04.85	-2 53	-1 51	-1 18	-2 23	0.3	0.2	0.0	- -	1.0	290	0.0	- -	0.8	110
2566	Eastern Plain Pt., 3.9 miles ENE of.....		41 07.05	71 59.80	-1 09	-1 26	-0 32	-1 01	0.3	0.3	0.0	- -	1.0	246	0.0	- -	1.0	096
2571	Little Gull Island, 0.8 mile SSE of <51>		41 11.67	72 06.23	-2 18	-0 50	-0 33	-3 02	0.4	0.2	0.0	- -	1.3	331	0.0	- -	0.6	105
								-1 54		0.0							0.1	252
								-0 32		0.2							0.6	174
2576	Rocky Point, 2 miles WNW of.....	15	41 03.55	72 01.80	-1 30	-1 01	-0 59	-0 59	0.1	0.1	0.1	192	0.3	255	0.2	340	0.3	065
	GARDINERS BAY, etc.																	
2581	Goff Point, 0.4 mile northwest of.....		41 01.49	72 03.75	-1 54	-2 25	-1 35	-2 31	0.4	0.5	0.0	- -	1.2	225	0.0	- -	1.6	010
2586	Acabonack Hbr. ent., 0.6 mile ESE of....		41 01.30	72 07.40	-1 42	-2 10	-1 15	-2 30	0.5	0.3	0.0	- -	1.4	345	0.0	- -	1.2	140
2591	Hog Creek Point, north of.....		41 04.10	72 09.70	-1 04	-0 49	-1 31	-1 52	0.1	0.1	0.0	- -	0.3	281	0.0	- -	0.3	067
2596	Ram Island, 2.2 miles east of.....		41 04.70	72 13.80	-0 27	-0 24	-0 24	-0 12	0.1	0.1	0.0	- -	0.2	250	0.0	- -	0.3	090
2601	Orient Point, 2.4 miles SSE of.....		41 07.50	72 12.30	+0 11	-0 34	+1 01	-0 31	0.1	0.1	0.0	- -	0.4	250	0.0	- -	0.3	025
2606	Gardiners Pt. Ruins, 1.1 miles N of.....		41 09.50	72 08.83	-0 20	-0 17	-0 19	+0 04	0.4	0.5	0.0	- -	1.2	270	0.0	- -	1.8	066
2611	Gardiners Point & Plum Island, between..	15	41 09.33	72 09.52	-0 26	-0 31	-0 42	-0 30	0.5	0.5	0.0	- -	1.4	288	0.0	- -	1.6	100
2616	Ram Island, 1.4 miles NNE of.....		41 05.8	72 15.8	-0 07	-0 02	-0 03	+0 17	0.1	0.2	0.0	- -	0.4	240	0.0	- -	0.6	075
2621	Long Beach Pt., 0.7 mile southwest of...	15	41 06.25	72 18.40	+0 25	-0 11	+0 34	0 00	0.5	0.5	0.0	- -	1.3	307	0.0	- -	1.8	101

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES - Min. before Flood	Flood	Min. before Ebb	Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	GARDINERS BAY, etc. Time meridian, 75°W				on THE RACE, p.34									
2626	Hay Beach Point, 0.3 mile NW of <52>....		41 06.65	72 20.43	+0 12	+0 20	+0 51	-0 51	0.5	0.3	0.0 - -	1.5 210	0.0 - -	1.2 025
								+0 38		0.2				0.6 025
2631	Jennings Point, 0.2 mile NNW of.....	13	41 04.48	72 22.95	+0 24	+0 09	+0 27	+1 35 +0 03	0.6	0.2 0.4	0.0 - -	1.6 290	0.0 - -	0.8 020 1.5 055
2636	Cedar Point, 0.2 mile west of.....		41 02.38	72 16.07	-0 19	-0 16	+0 19	-0 41	0.6	0.5	0.0 - -	1.8 195	0.0 - -	1.6 005
2641	North Haven Peninsula, north of.....		41 02.47	72 19.25	+0 04	-0 30	+0 29	-0 34	0.8	0.6	0.0 - -	2.4 230	0.0 - -	2.1 035
2646	Paradise Point, 0.4 mile east of.....	13	41 02.88	72 22.57	+0 18	+0 03	+0 35	+0 06	0.5	0.4	0.0 - -	1.5 145	0.0 - -	1.5 345
2651	Little Peconic Bay entrance.....	19	41 01.58	72 23.08	+0 27	+0 01	+0 43	+0 21	0.6	0.4	0.0 - -	1.6 240	0.0 - -	1.5 015
2656	Robins Island, 0.5 mile south of.....		40 56.98	72 27.18	+0 24	-0 12	+0 46	+0 35	0.6	0.2	0.0 - -	1.7 245	0.0 - -	0.6 065
								-1 31		0.1				0.2 243
								-0 07		0.2				0.5 234
	FISHERS ISLAND SOUND													
2661	Edwards Pt. and Sandy Pt., between.....	4	41 19.90	71 53.88	-2 34	-2 17	-2 25	-3 41	0.4	0.3	0.0 - -	1.1 035	0.0 - -	1.0 227
2666	Napatree Point, 0.7 mile southwest of...		41 17.92	71 54.00	-0 56	-1 07	-0 57	-1 18	0.6	0.6	0.0 - -	1.7 284	0.0 - -	2.2 113
2671	Little Narragansett Bay entrance.....		41 20	71 53	-1 56	-1 59	-2 09	-2 35	0.4	0.3	0.0 - -	1.3 092	0.0 - -	1.3 268
2676	Avondale, Pawcatuck River <51>.....	6	41 19.90	71 50.73	-1 56	-2 42	-2 17	-3 40	0.2	0.2	0.0 - -	0.6 058	0.0 - -	0.5 265
								-1 08		0.0				0.1 243
								+0 04		0.1				0.2 263
2681	Ram Island Reef, south of.....	7	41 18.1	71 58.5	-0 52	-0 47	-0 41	-0 50	0.4	0.4	0.0 - -	1.3 255	0.0 - -	1.6 088
2686	Noank <51>.....	4	41 19.12	71 59.30	-1 36	-3 16	-4 10	-4 30	0.2	0.1	0.0 - -	0.5 340	0.0 - -	0.3 173
								-1 24		0.0				0.0 - -
								+0 19		0.1				0.5 162
2691	Mystic, Highway Bridge, Mystic River....	6	41 21.25	71 58.18	-2 02	-2 50	-2 07	-3 39	0.2	0.1	0.0 - -	0.5 039	0.0 - -	0.4 231
								-1 40		0.0				0.2 234
2696	Clay Point, 1.3 miles NNE of.....	15	41 17.88	71 58.53	-0 42	-0 49	-0 40	-0 20 -1 15	0.5	0.1 0.5	0.0 - -	1.4 264	0.0 - -	0.3 232 1.9 035
2701	North Hill Point, 1.1 miles NNW of.....		41 17.57	72 01.68	-1 05	-0 26	-0 18	-1 37	0.5	0.4	0.0 - -	1.5 258	0.0 - -	1.2 082
	LONG ISLAND SOUND													
	The Race													
2706	Race Point, 0.4 mile southwest of....		41 14.70	72 02.60	-0 24	-0 35	-0 43	-0 44	0.9	1.0	0.0 - -	2.6 288	0.0 - -	3.5 135
2711	THE RACE, near Valiant Rock.....		41 14.20	72 03.60	Daily predictions						0.0 - -	2.9 295	0.0 - -	3.5 100
2716	0.5 mile NE of Little Gull Island....		41 13	72 06	-0 30	-0 14	-0 11	-0 26	1.0	0.7	0.0 - -	3.3 002	0.0 - -	3.1 107
2721	Little Gull I., 1.1 miles ENE of.....		41 13.10	72 05.10	-0 07	-0 11	+0 01	-0 45	1.4	1.3	0.0 - -	4.0 301	0.0 - -	4.7 130
2726	Great Gull Island, 0.7 mile WSW of.....		41 11.67	72 08.02	-0 51	-0 33	-0 31	-1 42	0.9	0.9	0.0 - -	2.6 299	0.0 - -	3.2 133
2731	Plum Gut.....		41 10.00	72 12.80	-1 22	-1 30	-1 01	-2 05	1.2	1.2	0.0 - -	3.5 323	0.0 - -	4.3 126
2736	Eastern Point, 1.5 miles south of.....		41 17.8	72 04.4	-1 57	-1 50	-1 03	-1 50	0.1	0.1	0.0 - -	0.4 249	0.0 - -	0.4 055
2741	New London Harbor entrance.....		41 19.08	72 05.02	-1 22	-1 51	-2 12	-1 15	0.1	0.1	0.0 - -	0.1 348	0.0 - -	0.2 211
	Thames River													
2746	Winthrop Point.....		41 21.63	72 05.30	-1 17	-1 59	-0 54	-2 35	0.1	0.1	0.0 - -	0.4 012	0.0 - -	0.4 180
								-1 08		0.0				0.2 186
								+0 04		0.1				0.3 185
2751	Off Smith Cove.....	5	41 23.98	72 05.18	-1 18	-2 20	-1 29	-1 54	0.2	0.1	0.0 - -	0.7 019	0.0 - -	0.5 199
								-1 30		0.1				0.2 202
								+0 13		0.2				0.6 198

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	LONG ISLAND SOUND Time meridian, 75°W				on THE RACE, p.34													
	Thames River																	
2756	Off Stoddard Hill	15	41 27.65	72 04.12	-1 17	-2 23	-0 40	-2 29	0.2	0.1	0.0	- -	0.7	332	0.0	- -	0.4	164
								-1 11		0.0							0.2	165
								+0 26		0.2							0.5	161
2761	Lower Coal Dock	15	41 30.88	72 04.72	Current weak and variable													
2766	Goshen Point, 1.9 miles SSE of	15	41 16.00	72 06.30	-1 05	-1 00	-1 03	-1 49	0.4	0.5	0.0	- -	1.2	285	0.0	- -	1.6	062
2771	Little Gull Island, 0.8 mile NNW of	15	41 13.10	72 06.93	+0 17	-1 19	-2 29	-0 46	0.7	0.8	0.0	- -	1.9	258	0.0	- -	2.9	043
2776	Bartlett Reef, 0.2 mile south of		41 16.2	72 07.7	-2 01	-0 50	-1 00	-1 31	0.3	0.3	0.0	- -	1.4	255	0.0	- -	1.3	090
2781	Twotree Island Channel	11	41 17.87	72 08.47	-1 06	-1 27	-0 43	-1 42	0.4	0.4	0.0	- -	1.2	267	0.0	- -	1.6	099
2786	Niantic (Railroad Bridge)	5	41 19.40	72 10.62	-0 53	-1 03	-0 53	-0 40	0.6	0.2	0.0	- -	1.6	352	0.0	- -	0.8	178
2791	Black Point, 0.8 mile south of	15	41 16.40	72 12.50	-0 50	-1 11	-0 25	-1 10	0.4	0.4	0.0	- -	1.2	260	0.0	- -	1.4	073
2796	Black Point and Plum Island, between	15	41 14.00	72 12.30	+0 25	+0 04	+0 29	+0 26	0.7	0.7	0.0	- -	2.1	236	0.0	- -	2.4	076
2801	Plum Island, 0.8 mile NNW of		41 11.87	72 11.92	+0 04	-0 16	-1 13	-0 41	0.6	0.7	0.0	- -	1.7	247	0.0	- -	2.4	065
2806	Branford Reef, 1.5 miles southwest of	15	41 12.57	72 49.83	-0 13	-0 14	-0 09	-0 18	0.3	0.2	0.0	- -	0.8	272	0.0	- -	0.7	068
2811	Branford Reef, 5.0 miles south of	15	41 08.65	72 49.67	-0 01	+0 09	+0 11	+0 03	0.2	0.2	0.0	- -	0.7	260	0.0	- -	0.8	074
2816	Hatchett Point, 1.1 miles WSW of		41 16.35	72 16.92	-2 37	-1 11	-0 52	-2 37	0.4	0.3	0.0	- -	1.3	240	0.0	- -	1.2	045
	Connecticut River																	
2821	Lynde Point, channel east of		41 16	72 20	+0 42	+0 50	+0 18	+0 29	0.3	0.2	0.0	- -	0.9	344	0.0	- -	0.7	161
2826	Saybrook Point, 0.2 mile northeast of		41 17.02	72 20.87	+0 35	+0 51	+0 47	+0 30	0.5	0.4	0.0	- -	1.5	355	0.0	- -	1.5	160
2831	Railroad drawbridge	15	41 19.00	72 20.77	+0 27	-0 26	+0 54	+1 06	0.4	0.3	0.0	- -	1.0	360	0.0	- -	1.0	198
						+0 35			0.2				0.6	359				
						+1 31			0.3				0.9	356				
2836	Eustasia Island, 0.6 mile ESE of		41 23.30	72 24.23	+1 53	+1 38	+1 23	+1 26	0.4	0.4	0.0	- -	1.1	290	0.0	- -	1.4	070
2841	Eddy Rock Shoal, west of	15	41 26.57	72 27.78	+1 41	+2 16	+2 01	+1 20	0.3	0.2	0.0	- -	0.8	350	0.0	- -	0.6	155
2846	Higganum Creek, 0.5 mile ESE of		41 30.02	72 32.62	+3 06	+2 52	+2 35	+3 01	0.3	0.3	0.0	- -	0.8	270	0.0	- -	1.0	080
2851	Wilcox Island Park, east of		41 34.33	72 38.88	+4 06	+3 36	+3 07	+3 35	0.3	0.3	0.0	- -	0.9	355	0.0	- -	1.0	160
2856	Rocky Hill	9	41 39.82	72 37.73	+4 41	+3 37	+3 21	+3 30	0.2	0.2	0.0	- -	0.6	335	0.0	- -	0.8	135
2861	Hartford Jetty <42>	9	41 45.07	72 39.02	+5 45	+4 39	+3 22	+4 29	0.0	0.2	0.0	- -	0.1	290	0.0	- -	0.7	095
2866	Saybrook Breakwater, 1.5 miles SE of		41 14.78	72 19.05	-1 30	-1 11	-0 55	-1 57	0.7	0.6	0.0	- -	1.9	260	0.0	- -	2.0	070
2871	Mulford Point, 3.1 miles northwest of	15	41 12.00	72 19.08	-0 06	-1 05	-0 05	-0 24	0.7	0.6	0.0	- -	1.9	269	0.0	- -	2.3	066
2876	Orient Point, 1 mile WNW of		41 10.02	72 15.11	-1 09	-2 02	-0 33	-1 15	0.5	0.9	0.0	- -	1.4	245	0.0	- -	3.1	055
						-0 59			0.3				0.8	255				
						-0 09			0.7				2.1	245				
2881	Rocky Point, 0.3 mile north of	15	41 08.63	72 21.42	-0 27	-1 02	-1 01	-0 28	0.6	0.6	0.0	- -	1.8	279	0.0	- -	2.1	041
2886	Cornfield Point, 3 miles south of	7	41 12.9	72 22.4	-0 56	-0 17	-0 03	-0 20	0.6	0.4	0.0	- -	2.0	256	0.0	- -	1.7	094
2891	Cornfield Point, 1.1 miles south of	15	41 14.65	72 23.40	-1 01	-1 34	-1 02	-2 03	0.5	0.5	0.0	- -	1.4	293	0.0	- -	1.6	108
2896	Kesley Point, 2.1 miles southeast of		41 14.10	72 27.93	-0 35	-1 02	-0 54	-1 00	0.5	0.5	0.0	- -	1.5	260	0.0	- -	1.8	070
2901	Six Mile Reef, 1.5 miles north of		41 12.66	72 28.87	-0 17	-0 12	-0 23	-0 41	0.3	0.4	0.0	- -	1.0	290	0.0	- -	1.3	095
2906	Six Mile Reef, 2 miles east of		41 10.83	72 26.90	-0 36	-0 12	-0 07	-0 35	0.6	0.6	0.0	- -	1.6	235	0.0	- -	2.1	040
2911	Horton Point, 1.4 miles NNW of		41 06.30	72 27.40	+0 04	+0 08	-0 03	-0 18	0.5	0.6	0.0	- -	1.4	260	0.0	- -	2.0	040
2916	Kelsey Point, 1 mile south of		41 14	72 30	-1 32	-1 00	-1 03	-1 51	0.6	0.3	0.0	- -	2.0	249	0.0	- -	1.5	118
2921	Hammonasset Point, 1.2 miles SW of	15	41 14.22	72 34.00	-0 59	-1 15	-0 44	-1 31	0.3	0.3	0.0	- -	1.0	287	0.0	- -	1.0	106
2926	Hammonasset Point, 5 miles south of	15	41 09.80	72 34.17	-0 03	-0 03	-0 24	-0 06	0.5	0.4	0.0	- -	1.4	284	0.0	- -	1.5	090
2931	Mattituck Inlet, 1 mile northwest of	15	41 01.68	72 34.22	-0 21	-0 15	-0 08	-0 26	0.3	0.3	0.0	- -	0.9	241	0.0	- -	1.0	053
2936	Sachem Head, 1 mile SSE of		41 13.65	72 42.30	-0 38	-0 36	-0 35	-1 02	0.4	0.3	0.0	- -	1.1	255	0.0	- -	1.0	065
2941	Sachem Head 6.2 miles south of	15	41 08.73	72 42.30	+0 29	+0 24	-0 12	-0 04	0.2	0.3	0.0	- -	0.6	260	0.0	- -	0.9	065
2946	Roanoke Point, 5.6 miles north of	15	41 04.37	72 42.53	-0 02	-0 02	-0 15	-0 24	0.2	0.3	0.0	- -	0.7	255	0.0	- -	0.9	050
2951	Roanoke Point, 2.3 miles NNW of		41 00.92	72 42.97	-1 19	-0 22	-0 10	-0 29	0.3	0.2	0.0	- -	0.9	270	0.0	- -	0.7	070

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	LONG ISLAND SOUND Time meridian, 75°W				on THE RACE, p.34									
2956	Sachem Head, 1 mile south of.....		41 14	72 43	-0 46	+0 03	-0 33	-0 38	0.3	0.3	0.0 - -	0.9 278	0.0 - -	1.2 084
2961	Herod Point, 2.8 miles north of.....	15	41 00.97	72 49.93	-0 29	-0 17	-0 27	-0 06	0.2	0.2	0.1 020	0.4 290	0.1 020	0.6 090
2966	Herod Point, 6.5 miles north of.....	15	41 04.65	72 49.80	-0 27	+0 06	+0 12	-0 07	0.3	0.2	0.0 - -	0.9 254	0.0 - -	0.7 070
2971	New Haven Harbor entrance <12>.....		41 14	72 55	-1 11	-1 34	-0 37	-1 15	0.4	0.2	0.0 - -	1.4 319	0.0 - -	0.9 152
2976	City Point, 1.3 miles northeast of.....		41 17.83	72 54.42	+0 11	+0 30	+0 33	+0 08	0.1	0.1	0.0 - -	0.3 015	0.0 - -	0.4 215
2981	Oyster River Pt., 1.3 miles SSE of <1>..		41 12.87	72 58.00	- - -	-0 15	- - -	-0 47	0.1	0.1	0.0 - -	0.3 255	0.0 - -	0.3 060
2986	Pond Point, 4.2 miles SSE of.....		41 08.60	72 58.08	-0 20	+0 04	-0 04	-0 14	0.2	0.2	0.0 - -	0.6 265	0.0 - -	0.6 065
2991	Stratford Shoal, 6 miles east of.....		41 04.52	72 58.43	+0 01	-0 02	-0 07	-0 09	0.2	0.2	0.0 - -	0.6 265	0.0 - -	0.6 060
2996	Sound Beach, 2.2 miles north of.....		41 00.33	72 58.45	-0 03	-0 06	-0 15	-0 25	0.3	0.3	0.0 - -	0.9 270	0.0 - -	0.9 075
3001	Charles Island, 0.8 mile SSE of.....		41 10.77	73 02.63	-0 51	-0 36	-0 30	-0 54	0.1	0.1	0.0 - -	0.4 250	0.0 - -	0.4 070
	Housatonic River													
3006	Milford Point, 0.2 mile west of.....	10	41 10.35	73 06.82	-0 06	+0 01	+0 15	-0 55	0.4	0.3	0.0 - -	1.2 330	0.0 - -	1.2 135
3011	Railroad drawbridge, above.....	5	41 12.53	73 06.67	+0 34	+0 13	+0 29	-0 55	0.4	0.4	0.0 - -	1.1 350	0.0 - -	1.3 185
3016	Fowler Island, 0.1 mile NNW of.....	5	41 14.40	73 06.23	+0 48	+0 10	+0 30	+0 48	0.4	0.3	0.0 - -	1.1 040	0.0 - -	1.1 270
3021	Wooster Island, 0.1 mile southwest of	5	41 16.67	73 05.20	+1 19	+0 33	+0 20	+0 22	0.2	0.2	0.0 - -	0.6 020	0.0 - -	0.7 220
3026	Derby-Shelton Bridge, below <13>.....		41 18.73	73 04.78	- - -	- - -	- - -	-0 06	- -	0.1	0.0 - -	- - - -	0.0 - -	0.4 095
3031	Point No Point, 2.1 miles south of.....	15	41 06.75	73 07.13	-0 30	-0 06	-0 08	-0 01	0.4	0.3	0.0 - -	1.3 251	0.0 - -	1.2 074
3036	Old Field Point, 1 mile east of.....	15	40 58.47	73 05.80	+3 26	+2 31	+2 25	+1 56	0.1	0.2	0.0 - -	0.2 105	0.0 - -	0.6 308
	...do.....	22	40 58.47	73 05.80	+2 30	+1 54	+2 17	+1 44	0.1	0.2	0.0 - -	0.2 110	0.0 - -	0.5 297
3041	Old Field Point, 2 miles northeast of...	15	41 00.23	73 05.70	+0 33	+0 13	-0 11	+0 58	0.3	0.3	0.0 - -	1.0 266	0.0 - -	1.1 092
	...do.....	40	41 00.23	73 05.70	+0 22	+0 08	-0 12	+0 41	0.2	0.2	0.0 - -	0.5 236	0.0 - -	0.6 081
3046	Stratford Point, 4.3 miles south of.....	15	41 04.77	73 06.67	+0 12	+0 19	+0 05	+0 14	0.3	0.3	0.0 - -	1.0 254	0.0 - -	1.0 075
	...do.....	60	41 04.77	73 06.67	-0 36	-0 09	-0 23	+0 15	0.2	0.2	0.0 - -	0.6 291	0.0 - -	0.8 078
3051	Stratford Point, 6.1 miles south of.....	15	41 02.97	73 05.80	-0 18	+0 03	+0 16	+0 30	0.3	0.2	0.0 - -	1.0 267	0.0 - -	0.8 080
	...do.....	51	41 02.97	73 05.80	-0 43	-0 31	-0 34	-0 12	0.3	0.2	0.0 - -	0.9 279	0.0 - -	0.9 087
3056	Port Jefferson Harbor entrance.....		40 58	73 06	+0 11	+0 40	+0 32	+0 14	0.8	0.4	0.0 - -	2.6 151	0.0 - -	1.9 323
3061	Crane Neck Point, 0.5 mile northwest of.		40 58	73 10	-0 45	-1 24	-1 38	-1 34	0.4	0.3	0.0 - -	1.3 256	0.0 - -	1.5 016
3066	Bridgeport Hbr. ent., btn. jetties <14>.	4	41 09	73 11	-0 10	-0 22	+0 05	-0 03	0.2	0.1	0.0 - -	0.7 340	0.0 - -	0.6 176
3071	Crane Neck Point, 3.4 miles WNW of.....	15	40 59.00	73 13.87	-0 12	+0 02	-0 25	+0 09	0.2	0.2	0.0 - -	0.5 261	0.0 - -	0.6 079
3076	Crane Neck Point, 3.7 miles WSW of.....	15	40 56.30	73 13.87	-1 32	-0 31	-0 24	-0 18	0.1	0.1	0.0 - -	0.4 066	0.0 - -	0.4 232
3081	Shoal Point, 6 miles south of.....	15	41 01.70	73 14.03	+0 22	+0 28	+0 42	+0 55	0.1	0.1	0.0 - -	0.4 232	0.0 - -	0.4 047
3086	Pine Creek Point, 2.3 miles SSE of.....	15	41 05.05	73 14.40	-0 20	+0 06	+0 21	+0 23	0.2	0.2	0.0 - -	0.7 272	0.0 - -	0.6 084
3091	Saugatuck River, 0.3 mi. NW of Bluff Pt.	15	41 06.27	73 21.92	-0 12	-0 41	+0 20	+0 10	0.2	0.1	0.0 - -	0.5 265	0.0 - -	0.4 080
3096	Saugatuck R., 0.5 mile above Bluff Pt...		41 06	73 23	Current weak and variable									
3101	Sheffield I. Tower, 1.1 miles SE of.....	15	41 01.97	73 24.33	+0 33	+0 39	+0 59	+0 33	0.3	0.2	0.0 - -	0.9 283	0.0 - -	0.8 081
	...do.....	60	41 01.97	73 24.33	-0 27	+0 24	+1 00	+0 36	0.2	0.2	0.0 - -	0.6 269	0.0 - -	0.5 076
3106	Sheffield I. Hbr., 0.5 mile southeast of	12	41 03.32	73 25.25	-2 41	-3 54	-3 36	-2 12	0.1	0.1	0.0 - -	0.2 229	0.0 - -	0.4 042
3111	Norwalk River, off Gregory Point.....	15	41 05.20	73 24.22	-0 12	-0 21	+0 29	+0 30	0.2	0.2	0.0 - -	0.6 322	0.0 - -	0.5 155
3116	Eaton's Neck Pt., 1.3 miles north of....	15	40 58.60	73 23.77	+0 21	+0 21	+0 05	+0 21	0.5	0.4	0.0 - -	1.4 283	0.0 - -	1.4 075
3121	Eaton's Neck Pt., 1.8 miles west of.....		40 57	73 26	-1 09	-1 01	-0 28	-0 29	0.2	0.1	0.0 - -	0.5 199	0.0 - -	0.6 068
3126	Eaton's Neck Pt., 3 miles north of.....	15	41 00.38	73 23.80	+0 40	+0 30	+0 36	+0 17	0.2	0.3	0.0 - -	0.7 253	0.0 - -	0.9 046
	...do.....	40	41 00.38	73 23.80	+0 17	+0 13	+0 26	+0 28	0.2	0.2	0.0 - -	0.6 264	0.0 - -	0.6 078
	...do.....	170	41 00.38	73 23.80	-0 38	-0 22	+1 26	+0 44	0.2	0.1	0.0 - -	0.6 188	0.0 - -	0.5 054
3131	Huntington Bay, off East Fort Point.....	15	40 55.60	73 25.05	-0 06	+0 14	+0 14	+0 51	0.2	0.1	0.0 - -	0.5 190	0.0 - -	0.5 014
	...do.....	30	40 55.60	73 25.05	-0 54	+0 10	+0 05	-0 16	0.1	0.1	0.0 - -	0.4 179	0.0 - -	0.3 007
3136	Northport Bay entrance (in channel).....	15	40 54.53	73 24.45	-0 11	+0 14	+0 12	+0 30	0.1	0.1	0.0 - -	0.4 100	0.0 - -	0.4 267
3141	Northport Bay, south of Duck I. Bluff...		40 55	73 23	+0 31	+0 54	+0 12	-0 05	0.1	0.1	0.0 - -	0.4 007	0.0 - -	0.3 286

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	LONG ISLAND SOUND Time meridian, 75°W				on THE RACE, p.34													
3146	Long Neck Point, 0.6 mile south of.....	15	41 01.58	73 28.68	-1 20	-0 05	+1 14	+0 11	0.3	0.1	0.0	- -	0.8	252	0.0	- -	0.5	073
	...do.....	27	41 01.58	73 28.68	-1 05	-0 08	+1 12	+0 09	0.3	0.1	0.0	- -	0.8	257	0.0	- -	0.5	080
3151	Lloyd Point, 1.3 miles NNW of.....	15	40 57.95	73 29.70	+1 16	+0 54	+1 20	+1 05	0.3	0.3	0.0	- -	1.0	255	0.0	- -	0.9	055
	...do.....	40	40 57.95	73 29.70	-0 08	+0 13	+1 07	+0 37	0.3	0.2	0.0	- -	1.0	269	0.0	- -	0.7	053
3156	Shippan Point, 1.3 miles SSE of.....	15	40 59.90	73 31.00	+0 28	+0 07	+0 13	+0 16	0.3	0.3	0.0	- -	0.9	239	0.0	- -	0.9	055
	...do.....	40	40 59.98	73 31.03	+0 10	+0 11	+0 46	-0 10	0.2	0.2	0.0	- -	0.7	247	0.0	- -	0.8	071
	Oyster Bay																	
3161	Rocky Point, 1 mile east of.....	15	40 55.15	73 30.03	+0 11	+0 20	+0 14	+0 42	0.2	0.2	0.0	- -	0.6	117	0.0	- -	0.5	306
3166	Harbor ent., south of Plum Point.....		40 54	73 31	-0 04	+0 07	+0 04	+0 04	0.2	0.2	0.0	- -	0.7	244	0.0	- -	0.7	054
3171	Harbor, west of Soper Point.....		40 53	73 32	+0 26	+0 28	+0 01	+0 26	0.2	0.1	0.0	- -	0.6	333	0.0	- -	0.4	140
3176	Cold Spring Harbor.....		40 53	73 29	Current weak and variable													
3181	Stamford Harbor entrance.....	12	41 00.88	73 32.20	-1 30	-1 17	-2 07	-0 22	0.1	0.2	0.0	- -	0.4	329	0.0	- -	0.8	134
3186	Greenwich Point, 1.1 miles south of.....	15	40 59.02	73 34.02	+1 13	+1 03	+1 39	+1 13	0.2	0.2	0.0	- -	0.7	258	0.0	- -	0.8	073
	...do.....	55	40 59.02	73 34.02	+1 16	+0 56	+0 41	+1 15	0.2	0.1	0.0	- -	0.6	265	0.0	- -	0.4	069
3191	Greenwich Point, 2.5 miles south of.....	15	40 57.60	73 33.68	+0 39	+0 15	+0 47	+0 41	0.2	0.2	0.0	- -	0.7	242	0.0	- -	0.7	052
	...do.....	55	40 57.60	73 33.68	-1 15	+0 01	-0 37	-0 05	0.2	0.1	0.0	- -	0.5	256	0.0	- -	0.4	079
3196	Oak Neck Point, 0.6 mile north of.....	15	40 55.50	73 34.02	+2 43	+2 03	+2 15	+2 23	0.2	0.2	0.0	- -	0.5	260	0.0	- -	0.6	072
	...do.....	30	40 55.50	73 34.02	+0 46	+1 40	+1 31	+2 03	0.2	0.1	0.0	- -	0.5	300	0.0	- -	0.5	090
3201	Captain Hbr. Ent., 0.6 mile southwest of	15	40 59.65	73 35.67	+1 24	+1 49	+1 39	+2 12	0.2	0.2	0.0	- -	0.6	312	0.0	- -	0.7	118
	...do.....	30	40 59.65	73 35.67	+1 14	+1 19	+0 48	+2 10	0.2	0.2	0.0	- -	0.5	319	0.0	- -	0.7	142
3206	Cos Cob Harbor, off Goose Island.....		41 01	73 36	+0 13	-0 07	+0 04	-0 40	0.2	0.1	0.0	- -	0.5	013	0.0	- -	0.4	188
3211	Peningo Neck, 0.6 mi. off Parsonage Pt..	15	40 56.32	73 40.50	+1 01	+0 28	+1 06	+0 39	0.2	0.2	0.0	- -	0.7	226	0.0	- -	0.7	035
3216	Matinecock Point, 0.7 mile NNW of.....	15	40 54.80	73 38.40	+1 06	+0 32	+1 24	+0 48	0.2	0.2	0.0	- -	0.6	233	0.0	- -	0.6	046
	...do.....	40	40 54.80	73 38.40	+0 27	+0 12	+1 23	+0 32	0.2	0.1	0.0	- -	0.7	262	0.0	- -	0.5	053
3221	Matinecock Point, 1.7 miles northwest of	15	40 55.48	73 39.37	+1 12	+1 04	+0 57	+1 14	0.1	0.1	0.0	- -	0.4	234	0.0	- -	0.4	055
3226	Hempstead Harbor, 0.3 mile north of.....	15	40 51.72	73 40.47	Current weak and variable													
3231	Hempstead Harbor, 0.5 mile east of.....	15	40 51.50	73 39.98	- - -	+0 05	- - -	-0 19	0.1	- -	0.0	- -	0.3	157	0.0	- -	0.1	331
3236	Old Town Wharf, 0.5 mile north of.....	5	40 48.78	73 39.08	- - -	-0 22	- - -	- - -	0.1	- -	0.0	- -	0.4	196	0.0	- -	- -	- -
3241	Hempstead Harbor, off Glenwood Landing..	10	40 49.68	73 39.00	-0 46	-0 05	-0 07	-0 47	0.3	0.2	0.0	- -	0.9	138	0.0	- -	0.7	320
3246	Delancey Point, 1 mile southeast of.....	15	40 55.00	73 42.73	+0 37	+0 14	+1 04	+0 07	0.2	0.1	0.0	- -	0.5	244	0.0	- -	0.4	059
	...do.....	33	40 55.00	73 42.73	- - -	+0 11	+0 59	-0 27	0.1	0.1	0.0	- -	0.4	239	0.0	- -	0.3	069
3251	Mamaroneck Harbor.....		40 56	73 43	Current weak and variable													
3256	Echo Bay entrance.....		40 54	73 46	Current weak and variable													
					on THROGS NECK, p.40													
3261	Davids Island, channel 0.1 mile east of.		40 53	73 46	Current weak and variable													
3266	Huckleberry Island, 0.2 mile NW of.....	15	40 53.43	73 45.43	-3 15	-4 07	-3 42	-3 53	0.4	0.3	0.0	- -	0.2	069	0.0	- -	0.2	234
3271	Huckleberry Island, 0.6 mile SE of.....	15	40 52.80	73 44.75	-2 25	-0 24	-2 14	-2 37	0.6	0.4	0.0	- -	0.4	025	0.0	- -	0.3	226
3276	Execution Rocks, 0.4 mile southwest of..	15	40 52.40	73 44.00	-2 38	-3 03	-2 48	-2 51	1.0	0.5	0.0	- -	0.6	058	0.0	- -	0.4	246
3281	Manhasset Bay entrance.....	15	40 49.75	73 43.78	+2 58	+2 27	+2 27	+2 51	0.6	0.4	0.0	- -	0.4	115	0.0	- -	0.3	307
3286	Hart Island, 0.2 mile north of.....	15	40 51.82	73 46.27	-2 23	-3 55	-4 17	-3 23	0.3	0.3	0.0	- -	0.2	098	0.0	- -	0.3	264
								-0 48		0.2							0.1	283
								-0 36		0.2							0.2	283
3291	Hart Island, southeast of.....	15	40 50.62	73 45.77	-1 44	-0 07	-1 32	-0 18	0.9	0.5	0.0	- -	0.6	032	0.0	- -	0.4	216
3296	Hart Island and City Island, between....	15	40 51.37	73 46.73	-1 48	-2 51	-2 19	-2 40	0.4	0.3	0.0	- -	0.2	349	0.0	- -	0.2	143
						-2 39		- - -	0.3	- -			0.2	348			- -	- -
						-0 28		-0 35	0.6	0.4			0.4	349			0.3	150

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES - Min. before Flood	Flood	Min. before Ebb	Ebb	SPEED RATIOS Flood	Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	LONG ISLAND SOUND Time meridian, 75°W				on THROGS NECK, p.40									
3301	City Island Bridge	10	40 51.47	73 47.60	-2 59	-4 52	-4 27	-4 26	0.3	0.6	0.0 - -	0.2 352	0.0 - -	0.5 198
						-2 30		-2 04	- -	- -		- - - -		- - - -
3306	Eastchester Bay, near Big Tom					-1 10		-0 40	0.2	0.2		0.1 327		0.2 196
3311	Hutchinson R., Pelham Highway Bridge	5	40 50.20	73 47.72	-3 05	-3 51	-4 07	-3 27	0.5	0.5	0.0 - -	0.3 097	0.0 - -	0.4 294
3316	City Island, 0.6 mile southeast of	5	40 51.70	73 49.00	+2 41	+2 37	+1 51	+2 00	1.4	0.6	0.0 - -	0.8 305	0.0 - -	0.4 078
		15	40 49.72	73 46.47	-1 17	-0 45	-2 59	-3 40	0.8	0.6	0.0 - -	0.5 038	0.0 - -	0.4 251
								-2 19		0.3				0.2 233
3321	Elm Point, 0.2 mile west of	15	40 48.92	73 46.02	-1 33	-3 16	-1 48	-0 15		0.7				0.5 233
								-0 26	0.3	0.7	0.0 - -	0.2 026	0.0 - -	0.6 213
						-2 49			0.2			0.1 028		
3326	Throgs Neck, 0.4 mile south of					-0 09			1.0			0.6 024		
3331	THROGS NECK, 0.2 mile south of	15	40 47.90	73 47.45	+0 36	+0 18	+0 20	+0 00	1.3	0.8	0.0 - -	0.8 090	0.0 - -	0.6 278
3336	Throgs Neck Bridge	15	40 48.12	73 47.48	Daily predictions						0.0 - -	0.6 090	0.0 - -	0.8 289
		15	40 48.1	73 47.6	-0 45	+0 12	-0 23	-0 09	2.5	1.2	0.1 194	1.5 122	0.0 - -	0.9 276
	EAST RIVER				on HELL GATE, p.46									
3341	Cryders Point, 0.4 mile NNW of		40 48.02	73 47.92	-0 29	-0 43	-0 30	-1 00	0.4	0.2	0.0 - -	1.3 110	0.0 - -	1.1 285
3346	Bronx-Whitestone Bridge, East of	14	40 48.1	73 49.6	-0 34	-0 46	-0 10	-1 27	0.5	0.2	0.0 - -	1.7 076	0.0 - -	1.0 247
3351	College Point Reef, NW of	15	40 47.9	73 51.2	-0 33	-0 49	-0 01	-0 57	0.4	0.3	0.1 338	1.5 050	0.1 311	1.3 255
3356	Flushing Creek entrance		40 45.9	73 50.7	Current weak and variable									
3361	Rikers I. chan., off La Guardia Field		40 47	73 53	+0 04	-0 04	+0 04	-0 08	0.3	0.3	0.0 - -	1.1 088	0.0 - -	1.3 261
3366	Bronx River (1 mile north of Hunts Pt.)		40 48.9	73 52.5	Current weak and variable									
3371	Hunts Point, southwest of		40 48	73 53	+0 01	-0 10	+0 01	-0 05	0.5	0.3	0.0 - -	1.7 108	0.0 - -	1.3 280
3376	South Brother Island, NW of	15	40 47.8	73 54.1	-0 17	+0 04	-0 06	-0 12	0.4	0.3	0.0 - -	1.5 054	0.0 - -	1.2 252
3381	Off Winthrop Ave., Astoria		40 47.2	73 55.0	+0 04	+0 02	-0 01	-0 11	1.0	0.5	0.0 - -	3.4 040	0.0 - -	2.5 220
3386	Mill Rock, northeast of		40 46.9	73 56.2	-0 23	+0 05	-0 29	-0 32	0.7	0.1	0.0 - -	2.3 103	0.0 - -	0.6 288
3391	Mill Rock, west of		40 46.8	73 56.5	-0 26	+0 08	-0 02	-0 17	0.4	0.2	0.0 - -	1.2 000	0.0 - -	1.0 180
3396	HELL GATE (off Mill Rock)		40 46.7	73 56.3	Daily predictions						0.0 - -	3.4 050	0.0 - -	4.6 230
	Roosevelt Island													
3401	west of, off 75th Street		40 46	73 57	-0 02	-0 04	-0 08	+0 07	1.1	1.0	0.0 - -	3.8 037	0.0 - -	4.7 215
3406	east of, off 36th Avenue		40 46	73 57	-0 08	-0 04	-0 08	-0 11	1.0	0.7	0.0 - -	3.5 030	0.0 - -	3.4 210
3411	west of, off 67th Street		40 45.74	73 57.24	+0 13	-0 08	+0 06	+0 11	1.1	0.9	0.0 - -	3.6 011	0.0 - -	4.0 230
3416	west of, off 63rd Street		40 45.58	73 57.27	-0 10	-0 08	0 00	+0 03	0.8	0.6	0.0 - -	2.8 036	0.0 - -	2.9 223
3421	east of		40 45.49	73 57.08	0 00	-0 06	+0 02	+0 07	0.8	0.6	0.0 - -	2.8 028	0.0 - -	2.6 200
3426	Manhattan, off 31st Street		40 44.38	73 58.17	+0 09	-0 11	-0 02	+0 36	0.4	0.5	0.0 - -	1.5 000	0.0 - -	2.1 175
3431	Newtown Creek entrance		40 44	73 57	Current weak and variable									
3436	Pier 67, off 19th Street		40 44	73 58	-0 08	+0 08	-0 08	+0 07	0.5	0.4	0.0 - -	1.8 355	0.0 - -	1.9 179
3441	Williamsburg Bridge, 0.3 mile north of		40 43.08	73 58.24	-0 05	+0 12	-0 01	+0 10	0.8	0.6	0.0 - -	2.7 020	0.0 - -	2.9 220
3446	Manhattan Bridge, East of	15	40 42.5	73 59.4	-0 28	+0 19	-0 13	+0 03	0.7	0.5	0.1 161	2.5 083	0.0 - -	2.2 259
3451	Brooklyn Bridge, 0.1 mile southwest of		40 42.2	74 00.0	-0 18	+0 08	-0 04	-0 07	0.9	0.8	0.0 - -	2.9 046	0.0 - -	3.5 222
3456	Buttermilk Channel (SEE CAUTION NOTE)	15	40 41.3	74 00.8	-0 31	0 00	+0 03	-0 18	0.5	0.6	0.0 - -	1.8 050	0.0 315	2.6 221
3461	Buttermilk Channel		40 41.15	74 00.81	-0 12	-0 18	-0 06	+0 18	0.5	0.5	0.0 - -	1.8 050	0.0 - -	2.4 220
	HARLEM RIVER													
3466	East 107th Street	15	40 47.4	73 56.1	-0 08	-0 03	-1 09	-1 39	0.2	0.2	0.0 - -	0.8 206	0.0 - -	0.8 030
3471	Willis Ave. Bridge, 0.1 mile NW of		40 48.3	73 55.8	-0 30	0 00	-0 12	-0 13	0.4	0.3	0.0 - -	1.2 140	0.0 - -	1.3 330

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	HARLEM RIVER Time meridian, 75°W				on HELL GATE, p.46													
3476	Madison Ave. Bridge		40 48.8	73 56.1	-0 20	+0 18	-0 21	-0 14	0.5	0.4	0.0	- -	1.8	180	0.0	- -	1.7	000
3481	Macombs Dam Bridge		40 49.7	73 56.1	-0 20	+0 14	-0 22	-0 11	0.5	0.3	0.0	- -	1.7	180	0.0	- -	1.4	000
3486	High Bridge		40 50.5	73 55.9	-0 20	+0 08	-0 23	-0 08	0.6	0.4	0.0	- -	2.0	189	0.0	- -	2.0	015
3491	West 207th Street Bridge		40 51.8	73 54.9	-0 22	+0 05	-0 22	-0 02	0.6	0.4	0.0	- -	2.0	215	0.0	- -	2.0	035
3496	Broadway Bridge		40 52.4	73 54.7	-0 23	+0 08	-0 20	+0 04	0.6	0.5	0.0	- -	2.1	116	0.0	- -	2.3	299
3501	Henry Hudson Bridge, 0.7 nmi. SE of	16	40 52.6	73 55.3	+0 12	+0 31	-0 31	+0 41	0.2	0.3	0.0	0 51	1.8	137	0.0	054	1.3	326
	LONG ISLAND, South Coast				on THE NARROWS, p.52													
3506	Fire Island Lighted Whistle Bouy 2FI		40 29	73 11	See table 5.													
3511	Fire Island Inlet, 22 miles S of <17>		40 16	73 16	See table 5.													
3516	Shinnecock Canal, railroad bridge <18>		40 53.2	72 30.1	- - -	- - -	- - -	-0 38	- -	0.8	- -	- -	- -	- -	- -	- -	1.5	180
3521	Ponquogue bridge, Shinnecock Bay		40 50.7	72 30.1	+0 54	+0 35	+0 27	+0 37	0.5	0.3	0.0	- -	0.8	250	0.0	- -	0.6	090
3526	Shinnecock Inlet		40 50.6	72 28.7	-0 06	-0 21	-0 30	-1 03	1.5	1.2	0.0	- -	2.5	350	0.0	- -	2.3	170
3531	Fire I. Inlet, 0.5 mi. S of Oak Beach		40 37.78	73 18.40	-0 03	-0 01	+0 29	-0 01	1.4	1.2	0.0	- -	2.4	082	0.0	- -	2.4	244
3536	Jones Inlet		40 35.5	73 34.0	-1 15	-0 49	-0 48	-1 05	1.8	1.3	0.0	- -	3.1	035	0.0	- -	2.6	217
3541	Long Beach, inside, between bridges		40 35.7	73 39.6	-0 54	+0 23	+0 32	0 00	0.3	0.3	0.0	- -	0.5	076	0.0	- -	0.6	277
3546	East Rockaway Inlet		40 35.4	73 45.3	-1 46	-1 35	-1 03	-1 38	1.3	1.2	0.0	- -	2.2	042	0.0	- -	2.3	227
3551	Ambrose Light		40 27	73 49	See table 5.													
3556	Sandy Hook App. Lighted Horn Bouy 2A		40 27	73 55	See table 5.													
	JAMAICA BAY																	
3561	Rockaway Point	15	40 32.3	73 56.8	-2 36	-2 34	-1 38	-3 02	1.1	0.5	0.2	228	1.9	301	0.2	217	1.1	140
3566	Rockaway Inlet		40 33.7	73 56.1	-1 55	-2 20	-1 33	-2 11	1.1	1.3	0.0	- -	1.8	085	0.0	- -	2.7	244
3571	Rockaway Inlet	14	40 34.2	73 53.8	-1 53	-2 00	-1 15	-2 29	0.9	0.8	0.0	- -	1.6	066	0.1	344	1.5	261
3576	Barren Island, east of		40 35	73 53	-1 59	-2 28	-2 03	-2 19	0.7	0.9	0.0	- -	1.2	004	0.0	- -	1.7	192
3581	Canarsie (midchannel, off pier)		40 37.6	73 53.0	-1 54	-1 38	-1 18	-2 06	0.3	0.4	0.0	- -	0.5	045	0.0	- -	0.7	222
3586	Beach Channel (bridge)		40 35	73 49	-1 48	-1 13	-0 57	-1 25	1.1	1.0	0.0	- -	1.9	062	0.0	- -	2.0	225
3591	Grass Hassock Channel		40 36.6	73 47.1	-1 21	-1 02	-0 57	-0 54	0.6	0.5	0.0	- -	1.0	052	0.0	- -	1.0	228
	NEW YORK HARBOR ENTRANCE																	
3596	Ambrose Channel	15	40 31.0	73 58.8	-0 57	-1 10	-0 25	-0 07	0.9	0.8	0.1	025	1.6	303	0.0	- -	1.7	123
3601	Norton Point, WSW of	16	40 33.5	74 01.5	-0 13	-1 01	+0 26	+0 27	0.6	0.6	0.3	263	1.0	341	0.1	071	1.2	166
3606	THE NARROWS, midchannel		40 36.6	74 02.8	Daily predictions						0.0	- -	1.7	340	0.0	- -	2.0	160
	NEW YORK HARBOR, Upper Bay																	
3611	Bay Ridge, west of	22	40 37.9	74 03.4	-0 11	+0 20	+0 42	+0 59	0.8	0.7	0.1	104	1.4	354	0.0	- -	1.5	185
3616	Bay Ridge Channel	15	40 39.3	74 01.9	-0 58	-1 26	+0 04	-1 17	0.6	0.3	0.0	- -	1.0	032	0.1	125	0.7	212
	...do	36	40 39.3	74 01.9	-1 35	-2 36	-0 50	-0 09	0.4	0.2	0.0	- -	0.6	037	0.0	- -	0.4	225
3621	Red Hook Channel		40 40.0	74 01.2	-1 03	-0 44	-0 08	-0 30	0.6	0.4	0.0	- -	1.0	353	0.0	- -	0.7	170
3626	Robbins Reef Light, east of		40 39.45	74 03.48	+0 16	+0 16	+0 02	+0 24	0.8	0.8	0.0	- -	1.3	016	0.0	- -	1.6	204
3631	Red Hook, 1 mile west of		40 40.5	74 02.5	+0 41	+1 06	+0 47	+0 52	0.8	1.2	0.0	- -	1.3	024	0.0	- -	2.3	206
3636	Statue of Liberty, east of		40 41.4	74 01.8	+0 57	+0 58	+0 56	+0 59	0.8	1.0	0.0	- -	1.4	031	0.0	- -	1.9	205

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	HUDSON RIVER, Midchannel <20> Time meridian, 75°W				on THE NARROWS, p.52									
3641	Hudson River entrance	14	40 42.5	74 01.2	+0 49	+1 12	+1 22	+2 18	0.8	0.7	0.1 292	1.4 009	0.0 - -	1.4 199
3646	Grants Tomb	16	40 48.8	73 58.1	+1 10	+0 46	+1 42	+2 06	1.0	0.9	0.0 - -	1.6 024	0.0 - -	1.9 210
	...do	18	40 48.8	73 58.1	+1 04	+1 18	+1 58	+1 27	1.1	0.9	0.0 - -	1.8 025	0.0 - -	1.8 208
3651	George Washington Bridge		40 51	73 57	+1 41	+1 55	+1 50	+2 08	0.9	1.1	0.0 - -	1.6 020	0.0 - -	2.2 200
3656	Spuyten Duyvil		40 53	73 56	+2 11	+2 08	+1 57	+2 24	0.9	1.1	0.0 - -	1.6 020	0.0 - -	2.1 - -
3661	Riverdale		40 54	73 55	+2 11	+2 07	+2 02	+2 32	0.8	1.0	0.0 - -	1.4 015	0.0 - -	2.0 200
3666	Mount St. Vincent College, SW of	15	40 54.7	73 54.8	+1 26	+2 00	+2 14	+2 29	0.9	0.7	0.0 - -	1.5 007	0.0 - -	1.4 190
3671	Dobbs Ferry		41 01	73 53	+2 30	+2 33	+2 24	+2 49	0.8	0.9	0.0 - -	1.3 010	0.0 - -	1.7 - -
3676	Tarrytown		41 05	73 53	+2 37	+2 46	+2 40	+3 02	0.6	0.8	0.0 - -	1.1 000	0.0 - -	1.5 - -
3681	Ossining		41 10	73 54	+2 50	+3 02	+3 05	+3 19	0.5	0.7	0.0 - -	0.9 320	0.0 - -	1.3 - -
3686	Haverstraw		41 12	73 57	+2 55	+3 08	+3 13	+3 26	0.5	0.7	0.0 - -	0.8 335	0.0 - -	1.3 - -
3691	Peekskill		41 17	73 57	+3 10	+3 24	+3 33	+3 42	0.5	0.6	0.0 - -	0.8 000	0.0 - -	1.2 - -
3696	Bear Mountain Bridge		41 19	73 59	+3 16	+3 31	+3 39	+3 48	0.5	0.6	0.0 - -	0.8 000	0.0 - -	1.1 - -
3701	Highland Falls		41 22	73 58	+3 24	+3 37	+3 44	+4 02	0.6	0.6	0.0 - -	1.0 005	0.0 - -	1.2 185
3706	West Point, off Duck Island		41 24	73 57	+3 32	+3 47	+3 51	+4 04	0.5	0.6	0.0 - -	1.0 010	0.0 - -	1.1 - -
3711	Newburgh		41 30	74 00	+3 50	+4 06	+4 03	+4 21	0.5	0.6	0.0 - -	0.9 005	0.0 - -	1.1 - -
3716	New Hamburg		41 35	73 57	+4 05	+4 20	+4 11	+4 33	0.6	0.6	0.0 - -	1.0 005	0.0 - -	1.1 - -
3721	Poughkeepsie		41 42	73 57	+4 26	+4 37	+4 21	+4 49	0.6	0.6	0.0 - -	1.1 005	0.0 - -	1.2 - -
3726	Hyde Park		41 47	73 57	+4 42	+4 48	+4 30	+5 00	0.7	0.7	0.0 - -	1.2 005	0.0 - -	1.3 - -
3731	Kingston Point <21>		41 56	73 57	+5 09	+5 09	+4 54	+5 19	0.8	0.8	0.0 - -	1.3 005	0.0 - -	1.6 - -
3736	Barrytown		42 00	73 56	+5 26	+5 21	+5 10	+5 26	0.8	0.9	0.0 - -	1.4 010	0.0 - -	1.7 - -
3741	Saugerties		42 04	73 56	+5 43	+5 42	+5 29	+5 36	0.9	1.0	0.0 - -	1.5 000	0.0 - -	1.9 - -
3746	Silver Point		42 09	73 54	+6 01	+6 14	+5 49	+5 50	0.9	1.0	0.0 - -	1.5 030	0.0 - -	2.0 - -
3751	Catskill		42 13	73 51	+6 16	+6 37	+6 09	+6 06	0.9	1.0	0.0 - -	1.6 355	0.0 - -	2.0 - -
3756	Hudson		42 15	73 48	+6 23	+6 45	+6 20	+6 15	0.9	1.0	0.0 - -	1.6 030	0.0 - -	2.0 - -
3761	Coxsackie		42 21	73 47	+6 45	+6 57	+6 55	+6 44	0.9	0.9	0.0 - -	1.6 350	0.0 - -	1.8 - -
3766	New Baltimore		42 27	73 47	+7 12	+7 04	+7 13	+7 09	0.8	0.8	0.0 - -	1.3 355	0.0 - -	1.5 - -
3771	Castleton-on-Hudson		42 32	73 46	+7 35	+7 11	+7 12	+7 29	0.5	0.6	0.0 - -	0.9 015	0.0 - -	1.2 - -
3776	Albany		42 39	73 45	+8 29	+7 32	+6 46	+7 47	0.2	0.4	0.0 - -	0.3 020	0.0 - -	0.8 - -
3781	Troy (below the locks) <22>		42 44	73 42	- - -	- - -	- - -	- - -	- -	- -	- - - -	- - - -	- - - -	0.7 190
	NEW YORK HARBOR, Lower Bay													
3786	Sandy Hook Channel	15	40 29.1	74 00.1	-1 33	-2 03	-1 06	-1 23	1.0	0.9	0.0 - -	1.6 286	0.0 - -	1.9 094
3791	Sandy Hook Chan., 0.4 mi. W of N. Tip		40 28.79	74 01.30	-1 51	-1 55	-1 30	-1 50	1.2	0.8	0.0 - -	2.0 235	0.0 - -	1.6 050
3796	Sandy Hook Pt., 2 mi. W of (channel)		40 28.8	74 03.6	-1 45	-2 00	-1 50	-1 42	0.4	0.3	0.0 - -	0.6 263	0.0 - -	0.6 086
3801	Chapel Hill South Channel		40 29.90	74 02.8	-2 12	-2 30	-1 40	-2 08	0.4	0.3	0.0 - -	0.7 255	0.0 - -	0.6 075
3806	New Dorp Beach, 1.2 miles south of		40 32.4	74 05.8	-4 19	-3 36	-4 35	-4 16	0.2	0.2	0.0 - -	0.4 225	0.0 - -	0.5 030
3811	Old Orchard Shoal Lt., 1.2 mi. ENE of		40 31.1	74 04.36	-2 19	-2 07	-1 23	-2 02	0.4	0.2	0.0 - -	0.7 270	0.0 - -	0.4 085
3816	New Dorp Beach, 1.8 miles SE of <23>		40 32.9	74 03.7	- - -	- - -	- - -	- - -	0.3	0.3	- - - -	0.5 045	- - - -	0.5 225
3821	Midland Beach, 2.6 miles SE of <24>		40 32.8	74 02.35	0 00	+0 07	0 00	+0 01	0.5	0.6	0.2 270	0.8 335	0.2 068	1.3 160
3826	Coney Island Lt., 1.5 miles SSE of		40 33.1	74 00.3	-1 27	-1 56	-0 58	-0 53	0.6	0.6	0.0 - -	1.1 310	0.0 - -	1.3 125
3831	Hoffman Island, 0.2 mile west of		40 35	74 04	-1 43	-1 48	-0 17	-0 50	0.5	0.4	0.0 - -	0.9 020	0.0 - -	0.8 210
3836	Rockaway Inlet Jetty, 1 mile SW of		40 31.8	73 57.2	-2 16	-2 12	-1 28	-1 43	0.7	0.7	0.0 - -	1.2 287	0.0 - -	1.4 142
3841	Coney Island Channel, west end		40 34.2	74 00.5	-1 21	-0 44	-0 24	-0 48	0.6	0.6	0.0 - -	1.1 293	0.0 - -	1.2 102

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	SANDY HOOK BAY <25> Time meridian, 75°W				on THE NARROWS, p.52													
3846	Highlands Bridge, Shrewsbury River.....		40 23.8	73 58.8	+0 21	+0 36	+0 33	+0 19	1.5	1.3	0.0	- -	2.6	170	0.0	- -	2.5	- -
3851	Seabright Bridge, Shrewsbury River.....		40 21.9	73 58.5	+0 55	+1 06	+0 52	+0 51	0.8	0.9	0.0	- -	1.4	185	0.0	- -	1.7	- -
	RARITAN BAY																	
3856	Raritan Bay Reach Channel.....	15	40 29.6	74 07.6	-2 05	-2 40	-0 38	-0 51	0.4	0.2	0.0	- -	0.6	285	0.0	- -	0.4	094
3861	Keyport Channel entrance.....		40 26.9	74 11.9	Current weak and variable													
3866	Red Bank, 1.4 miles south of.....		40 28.9	74 12.6	-1 45	-2 12	-1 22	-1 44	0.4	0.3	0.0	- -	0.6	278	0.0	- -	0.5	079
3871	Seguine Point.....	14	40 30.4	74 11.2	-2 02	-2 50	-0 48	-2 08	0.4	0.2	0.0	- -	0.7	281	0.1	008	0.3	079
	...do.....	34	40 30.4	74 11.2	-3 38	-2 51	-0 13	-2 24	0.3	0.1	0.0	- -	0.5	285	0.0	- -	0.2	105
3876	Ward Point, ESE.....	14	40 29.5	74 13.8	-1 55	-1 58	-0 11	-0 54	0.4	0.3	0.1	328	0.7	244	0.1	133	0.5	048
	RARITAN RIVER																	
3881	Railroad Bridge, Raritan River.....	15	40 29.9	74 17.0	-2 12	-2 25	-1 15	-2 01	0.5	0.4	0.0	- -	0.9	326	0.0	- -	0.7	147
3886	Washington Canal, north entrance.....		40 28.3	74 22.1	-1 12	-1 25	-1 30	-2 51	0.9	0.8	0.0	- -	1.5	240	0.0	- -	1.5	060
3891	South River entrance.....		40 28.7	74 22.7	-1 55	-2 14	-0 27	-1 44	0.6	0.5	0.0	- -	1.1	180	0.0	- -	1.0	000
	ARTHUR KILL																	
3896	Tottenville, Arthur Kill.....	15	40 30.8	74 15.3	-1 14	-1 25	-0 33	-1 23	0.6	0.5	0.0	- -	1.0	023	0.0	- -	1.1	211
	...do.....	32	40 30.8	74 15.3	-1 33	-1 05	-0 48	-1 03	0.4	0.2	0.0	- -	0.6	026	0.0	- -	0.5	207
3901	Tufts Point-Smoking Point.....		40 33.4	74 13.4	-0 48	-0 44	-0 24	-1 00	0.7	0.6	0.0	- -	1.2	109	0.0	- -	1.2	267
3906	Tremley Point Reach.....	21	40 35.3	74 12.5	-0 18	-0 54	+0 31	+0 29	0.5	0.4	0.0	- -	0.9	015	0.0	- -	0.8	198
3911	Elizabethport.....		40 38.8	74 10.9	+0 05	-0 09	+0 32	+0 04	0.8	0.6	0.0	- -	1.4	090	0.0	- -	1.1	262
	KILL VAN KULL																	
3916	Bergen Point, East Reach.....	15	40 38.7	74 07.8	-1 34	-2 13	-1 35	-1 44	0.6	0.6	0.0	- -	1.1	274	0.0	- -	1.2	094
3921	New Brighton.....	15	40 39.0	74 05.1	-1 44	-2 08	-1 24	-1 43	0.8	0.9	0.0	- -	1.3	262	0.0	- -	1.9	072
	...do.....	17	40 39.0	74 05.1	-2 00	-2 19	-1 38	-1 14	0.8	0.7	0.0	- -	1.3	259	0.0	- -	1.4	075
	NEWARK BAY																	
3926	South Reach, Newark Bay.....	15	40 39.6	74 08.4	-0 56	-1 45	-0 51	-1 06	0.4	0.4	0.0	- -	0.7	031	0.0	296	0.7	218
	HACKENSACK RIVER																	
3931	Lincoln Highway Bridge, north of.....		40 44	74 06	-0 06	+0 12	+0 47	-0 14	0.5	0.4	0.0	- -	0.9	017	0.0	- -	0.8	181
	PASSAIC RIVER																	
3936	Lincoln Highway Bridge.....		40 44	74 07	-0 31	-0 19	-0 12	-0 20	0.4	0.3	0.0	- -	0.6	009	0.0	- -	0.5	180
	NEW JERSEY COAST				on DELAWARE BAY ENTRANCE, p.58													
3941	Manasquan Inlet.....		40 06	74 02	-0 43	-0 30	-1 12	-0 57	1.2	1.4	0.0	- -	1.7	300	0.0	- -	1.8	120
3946	Manasquan R., hwy. bridge, main chan....		40 06	74 03	-0 41	-0 50	-1 15	+0 10	1.6	1.6	0.0	- -	2.2	230	0.0	- -	2.1	050

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	NEW JERSEY COAST Time meridian, 75°W													
3951	Point Pleasant Canal, north bridge <63>.		40 05	74 04	+1 46	+1 28	+0 48	+2 10	1.3	1.5	0.0 - -	1.8 170	0.0 - -	2.0 350
3956	Barnegat Inlet		39 46	74 07	+1 01	+0 12	+0 15	+0 48	1.6	1.9	0.0 - -	2.2 270	0.0 - -	2.5 090
3961	Manahawkin Drawbridge		39 39	74 11	+2 33	+2 43	+2 25	+4 21	0.8	0.7	0.0 - -	1.1 030	0.0 - -	0.9 210
3966	Cape May, 72 miles east of <26>		39 04	73 25	See table 5.									
3971	Five-Fathom Bank NE. Buoy 2 FB		38 58	74 32	See table 5.									
3976	Five Fathom Bank Traffic Lane	35d	38 47.30	74 42.68	-1 50	-1 42	-1 02	-0 40	0.4	0.3	0.0 - -	0.6 304	0.0 - -	0.4 121
	...do	50d	38 47.30	74 42.68	-2 24	-1 18	-1 21	-1 20	0.3	0.2	0.0 - -	0.4 302	0.0 - -	0.3 128
3981	McCrie Shoal		38 51	74 51	-0 34	-0 26	-0 43	-0 04	0.9	1.1	0.0 - -	1.3 280	0.0 - -	1.4 100
3986	Cape May Harbor entrance		38 57	74 52	-1 45	-0 59	-1 11	-1 14	1.3	1.7	0.0 - -	1.8 333	0.0 - -	2.2 150
3991	Cape May Canal, east end		38 57	74 54	-1 47	-1 48	-1 53	-1 05	1.4	1.5	0.0 - -	1.9 310	0.0 - -	1.9 130
3996	Cape May Canal, west end		38 58	74 58	-1 48	-1 48	-1 48	-1 16	0.6	0.7	0.0 - -	0.9 264	0.0 - -	0.9 089
	DELAWARE BAY and RIVER													
4001	Cape May Channel		38 54	74 58	-1 14	-1 30	-1 11	-0 45	1.1	1.8	0.0 - -	1.5 306	0.0 - -	2.3 150
4006	Cape May Point, 1.4 n.mi. SSW of	15d	38 54.37	74 58.68	-1 03	-1 18	-1 02	-0 47	1.0	1.3	0.1 030	1.5 309	0.1 214	1.8 130
	...do	25d	38 54.37	74 58.68	-0 56	-1 05	-1 00	-0 41	0.8	0.9	0.1 038	1.1 306	0.1 223	1.2 139
4011	Cape May Point, 2.7 n.mi. SSW of	15d	38 53.40	74 59.13	-1 30	-1 08	-0 47	-0 36	0.9	0.6	0.1 228	1.2 299	0.2 208	0.9 146
4016	DELAWARE BAY ENTRANCE	22	38 46.85	75 02.58	Daily predictions						- - - -	1.4 327	- - - -	1.3 142
4021	Cape Henlopen, 0.7 n.mi. ESE of	12d	38 47.97	75 04.90	-0 05	+0 07	-0 40	-0 03	1.3	1.8	0.0 - -	1.8 331	0.0 - -	2.4 139
	...do	70d	38 47.97	75 04.90	-1 26	+0 04	-0 24	+0 16	0.8	0.5	0.1 042	1.2 317	0.1 232	0.7 150
4026	Cape Henlopen, 2 miles northeast of		38 49.2	75 03.4	+0 21	+0 21	-0 03	+0 59	1.4	1.8	0.0 - -	2.0 315	0.0 - -	2.3 145
4031	Cape Henlopen, 4.8 n.mi. northeast of	18d	38 51.55	75 01.47	-0 23	-1 11	-0 42	-0 03	1.1	1.4	0.2 241	1.5 322	0.2 229	1.8 150
	...do	28d	38 51.55	75 01.47	-0 44	-1 00	-0 44	+0 05	0.7	0.9	0.1 228	1.0 301	0.2 220	1.2 154
4036	Cape Henlopen, 5 miles north of		38 53.0	75 05.3	+0 22	+0 39	+0 41	+1 08	1.4	1.5	0.0 - -	2.0 344	0.0 - -	1.9 173
4041	Breakwater Harbor		38 47.6	75 06.5	-0 55	-0 50	-1 14	-0 14	0.6	0.7	0.0 - -	0.8 266	0.0 - -	0.9 078
4046	Roosevelt Inlet (between jetties) <27>		38 47.5	75 09.5	- - -	+2 10	- - -	+1 15	0.5	0.8	0.0 - -	0.7 206	0.0 - -	1.1 030
4051	Broadkill Slough	14d	38 53.78	75 12.63	-0 36	+0 08	-0 03	+0 01	0.5	0.5	0.0 - -	0.8 314	0.1 223	0.6 132
4056	Mispillion River mouth		38 56.8	75 18.9	+2 34	+2 29	+1 49	+2 14	1.1	0.8	0.0 - -	1.5 025	0.0 - -	1.0 190
4061	Bay Shore Channel (north)	13d	39 04.68	74 58.88	-0 29	+0 05	+0 03	+0 52	0.6	0.5	0.1 098	0.8 006	0.1 275	0.7 183
4066	Bay Shore Channel (city of Town Bank)	15d	38 59.08	74 59.28	-0 31	-0 51	-0 45	+0 35	0.7	0.7	0.1 093	0.9 006	0.0 - -	1.0 183
4071	Brandywine Ra. (off Brandywine Shoal S)	15d	38 58.98	75 07.65	-0 07	-0 09	-0 05	+0 18	0.9	1.0	0.0 - -	1.3 337	0.0 - -	1.4 157
	...do	45d	38 58.98	75 07.65	-0 35	+0 06	-0 06	+0 45	0.6	0.6	0.0 - -	0.8 331	0.1 058	0.8 147
4076	Brandywine Ra. (off Brandywine Shoal N)	15d	39 00.37	75 08.38	-0 09	+0 01	+0 02	+0 27	0.8	0.8	- - - -	1.2 339	- - - -	1.1 164
	...do	40d	39 00.37	75 08.38	-0 36	0 00	-0 05	+0 24	0.5	0.4	0.1 061	0.6 334	0.0 - -	0.6 153
4081	Big Stone Beach, 2.8 miles southeast of		38 58.7	75 16.6	-0 44	-0 51	-0 41	-0 11	0.5	0.7	0.0 - -	0.7 326	0.0 - -	0.9 145
4086	Big Stone Beach, 2.2 n.mi. ENE of	15d	39 00.48	75 17.05	+0 07	+0 13	+0 04	+1 00	0.4	0.5	0.0 - -	0.6 319	0.1 233	0.7 135
4091	Fourteen Ft. Bank Lt., 1.4 n.mi. SSE of	12d	39 02.32	75 09.48	+0 10	+0 03	+0 13	+1 06	0.9	0.9	0.1 071	1.2 344	0.0 - -	1.2 160
	...do	30d	39 02.32	75 09.48	-0 20	+0 07	+0 10	+0 51	0.7	0.5	0.1 069	0.9 343	0.1 249	0.7 155
4096	Fourteen Ft. Bank Lt., 1.2 mi. east of		39 03.3	75 09.5	+0 10	+0 13	+0 29	+1 01	0.9	1.2	0.0 - -	1.3 339	0.0 - -	1.5 174
4101	Deadman Shoal, 3.1 n.mi. SW of	13d	39 04.00	75 04.22	-0 23	+0 04	-0 08	+0 37	0.6	0.5	0.1 085	0.8 352	0.1 263	0.6 173
4106	Egg Island Flats		39 06.4	75 07.1	-0 53	-0 26	-0 31	-0 30	0.5	0.5	0.0 - -	0.7 355	0.0 - -	0.7 150
4111	Brandywine Range at Miah Mall Range	9d	39 04.97	75 11.28	+0 40	+0 03	+0 21	+1 40	0.7	0.9	0.1 067	1.0 341	0.0 - -	1.2 159
4116	Maurice River entrance		39 13.0	75 02.7	+0 51	+0 45	+1 04	+1 35	0.8	0.8	0.0 - -	1.1 012	0.0 - -	1.0 192
4121	Mauricetown Bridge, Maurice River		39 17.2	74 59.6	+1 01	+1 27	+1 24	+1 29	1.7	1.7	0.0 - -	2.4 000	0.0 - -	2.2 180
4126	Millville Drawbridge, Maurice River <28>		39 23.7	75 02.4	- - -	- - -	- - -	+2 47	0.1	0.3	0.0 - -	0.2 000	0.0 - -	0.4 180
4131	St. Jones River ent., 1 mile east of		39 04	75 23	-0 01	-0 01	+0 11	+0 47	0.4	0.5	0.0 - -	0.6 334	0.0 - -	0.7 122
4136	Kelly Island, 1.5 miles east of		39 12.8	75 21.7	+0 51	+0 50	+0 44	+1 12	0.6	0.9	0.0 - -	0.9 348	0.0 - -	1.2 164

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	DELAWARE BAY and RIVER Time meridian, 75°W				on DELAWARE BAY ENTRANCE, p.58													
4141	Miah Maull Range at Cross Ledge Range...	16d	39 10.72	75 16.40	+1 19	+0 41	+1 27	+2 27	1.1	1.4	0.2	254	1.5	335	0.1	241	1.8	160
4146	False Egg Island Point, 2 miles off.....		39 11.4	75 12	+0 27	+0 04	+0 13	+1 02	0.8	1.0	0.0	- -	1.1	342	0.0	- -	1.3	158
4151	Ben Davis Pt. Shoal, southwest of.....	15d	39 14.87	75 18.93	+1 48	+1 30	+1 30	+2 37	1.3	1.4	0.2	047	1.8	321	0.0	- -	1.9	147
4156	Ben Davis Point, 3.2 n.mi. SW of.....	12d	39 16.13	75 20.88	+2 06	+1 38	+1 51	+2 51	1.4	1.7	0.2	047	1.9	328	0.0	- -	2.2	140
	...do.....	43d	39 16.13	75 20.88	+1 01	+1 17	+2 15	+3 09	0.6	0.3	0.0	- -	0.8	319	0.0	- -	0.4	136
4161	Ben Davis Point, 0.8 mile southwest of..		39 16.9	75 18.2	+0 57	+0 58	+1 13	+1 21	0.9	0.6	0.0	- -	1.2	308	0.0	- -	0.8	122
4166	Cohansey River, 0.5 mile above entrance.		39 20.9	75 21.6	+1 30	+1 20	+1 31	+1 49	0.9	1.1	0.0	- -	1.2	074	0.0	- -	1.4	254
4171	Bridgeton (Broad Street Bridge) <1>....		39 25.6	75 14.2	- - -	+2 27	- - -	+2 52	0.1	0.2	0.0	- -	0.2	000	0.0	- -	0.3	180
4176	Arnold Point, 2.2 n.mi. WSW of.....	14d	39 22.67	75 28.07	+2 23	+2 18	+2 27	+3 10	1.5	1.4	0.0	- -	2.1	324	0.1	047	1.9	145
	...do.....	29d	39 22.67	75 28.07	+1 50	+2 08	+2 16	+2 30	1.2	1.0	0.1	225	1.6	327	0.1	055	1.3	140
4181	Smyrna River entrance.....		39 21.9	75 30.8	+1 49	+1 41	+1 57	+2 28	0.9	1.2	0.0	- -	1.2	250	0.0	- -	1.5	070
4186	Stony Point, channel west of.....		39 27.1	75 33.8	+3 24	+2 49	+2 30	+3 27	1.1	1.5	0.0	- -	1.5	324	0.0	- -	1.9	151
4191	Appoquinimink River entrance.....		39 26.8	75 34.9	+2 34	+2 54	+2 14	+2 55	0.7	0.9	0.0	- -	1.0	231	0.0	- -	1.2	048
4196	Artificial Island (Baker Range).....	14d	39 28.20	75 33.88	+3 02	+2 38	+2 46	+4 06	1.5	2.0	0.2	267	2.1	346	0.0	- -	2.7	175
4201	Reedy Island (off end of pier).....		39 30.7	75 33.4	+3 02	+3 00	+2 46	+3 44	1.7	2.0	0.0	- -	2.4	027	0.0	- -	2.6	194
4206	Alloway Creek ent., 0.2 mile above.....		39 29.9	75 31.5	+2 22	+2 41	+2 11	+2 17	1.5	1.5	0.0	- -	2.1	129	0.0	- -	2.1	325
4211	New Bridge, Alloway Creek.....		39 31.6	75 27.1	+3 04	+3 56	+3 28	+3 57	0.9	1.1	0.0	- -	1.3	090	0.0	- -	1.4	270
4216	Chesapeake and Delaware Canal Entrance..	15d	39 33.63	75 34.20	+6 05	+5 30	+6 31	+6 16	1.0	1.5	0.0	- -	1.4	264	0.0	- -	2.0	087
4221	Reedy Point, 0.4 mile east of.....		39 33.53	75 33.13	+3 19	+3 01	+2 46	+4 21	1.3	1.8	0.0	- -	1.8	333	0.0	- -	2.3	166
4226	Reedy Point, 1.1 miles east of.....		39 33.58	75 32.47	+3 20	+3 10	+3 00	+3 57	1.3	1.3	0.0	- -	1.8	354	0.0	- -	1.7	179
4231	Reedy Point, 0.85 n.mi. northeast of....	15d	39 34.23	75 33.22	+3 35	+2 35	+2 52	+3 51	1.2	1.6	0.0	- -	1.6	341	0.0	- -	2.2	163
4236	Salem River entrance.....		39 34.2	75 30.1	+3 47	+3 32	+3 29	+4 30	1.1	1.2	0.0	- -	1.5	062	0.0	- -	1.6	245
4241	Bulkhead Shoal Channel, SE, Del. City...	14d	39 34.58	75 34.52	+3 25	+2 44	+3 01	+4 03	1.3	1.6	0.0	- -	1.8	299	0.0	- -	2.1	118
4246	Bulkhead Shoal Channel, off Del. City...		39 35.0	75 35.2	+3 17	+2 57	+2 55	+4 05	1.5	1.6	0.0	- -	2.1	308	0.0	- -	2.1	138
4251	Pea Patch Island, channel east of.....		39 36.0	75 33.9	+3 31	+3 12	+3 25	+4 30	1.6	1.8	0.0	- -	2.3	319	0.0	- -	2.3	148
4256	Finns Point, 0.60 n.mi. Northwest of....	16d	39 36.37	75 34.47	+3 35	+3 07	+3 17	+4 14	1.5	1.7	0.0	- -	2.1	332	0.0	- -	2.3	152
4261	Penns Neck, 0.6 mile west of.....		39 37.05	75 34.92	+3 39	+3 37	+3 06	+3 52	1.2	1.3	0.0	- -	1.7	002	0.0	- -	1.7	167
4266	Penns Neck, 0.3 mile west of.....		39 37.07	75 34.58	+3 23	+3 06	+3 00	+3 58	1.3	1.3	0.0	- -	1.8	339	0.0	- -	1.7	152
4271	New Castle, channel abreast of.....		39 39.1	75 33.2	+3 37	+2 52	+2 58	+3 54	1.4	1.8	0.0	- -	1.9	051	0.0	- -	2.4	230
4276	Kelly Point, 0.2 mile northwest of.....		39 38.9	75 32.8	+3 44	+3 54	+3 16	+3 52	1.1	1.2	0.0	- -	1.6	049	0.0	- -	1.5	230
4281	Riverview Beach, 0.75 n.mi. west of.....	15d	39 39.40	75 32.38	+3 52	+3 22	+3 31	+4 28	1.4	1.5	0.0	- -	2.0	038	0.0	- -	1.9	225
4286	Deepwater Point, channel northwest of...		39 42.1	75 30.6	+3 45	+3 53	+3 37	+4 16	2.1	2.0	0.0	- -	3.0	029	0.0	- -	2.6	215
4291	Christina River, 0.9 n.mi. above ent....	15d	39 43.30	75 31.77	+3 53	+3 15	+2 33	+3 50	0.2	0.6	0.1	226	0.2	303	0.0	- -	0.8	137
4296	Cherry Island Flats, channel east of....		39 44.3	75 29.1	+4 10	+4 07	+3 54	+4 18	1.1	1.1	0.0	- -	1.6	027	0.0	- -	1.4	207
4301	Oldsmans Point.....		39 45.9	75 28.4	+4 29	+3 41	+3 55	+5 01	1.1	1.2	0.0	- -	1.6	027	0.0	- -	1.5	210
4306	Marcus Hook Bar (north), Main Channel...	15d	39 47.70	75 26.08	+4 15	+3 26	+3 57	+4 49	1.4	1.3	- -	- -	1.9	059	- -	- -	1.7	246
4311	Marcus Hook.....		39 48.2	75 24.6	+4 59	+4 18	+3 54	+5 12	1.2	1.2	0.0	- -	1.7	061	0.0	- -	1.6	232
4316	Eddystone.....		39 50.8	75 20.5	+5 26	+4 40	+4 23	+5 16	1.2	1.7	0.0	- -	1.7	058	0.0	- -	2.2	242
4321	Essington Harbor.....		39 51.5	75 18.3	+4 10	+3 53	+3 56	+4 17	1.0	0.9	0.0	- -	1.4	096	0.0	- -	1.2	274
4326	Crab Point, 0.5 mile east of.....		39 50.8	75 17.0	+4 49	+4 43	+4 36	+5 19	1.5	1.5	0.0	- -	2.1	094	0.0	- -	1.9	268
4331	Hog Island, channel southeast of.....		39 52.0	75 12.9	+4 54	+4 52	+4 34	+5 13	1.4	1.7	0.0	- -	1.9	054	0.0	- -	2.2	231
4336	Schuylkill River entrance <1>.....		39 53.2	75 11.7	- - -	+3 19	- - -	+4 29	0.4	0.3	0.0	- -	0.5	356	0.0	- -	0.4	178
4341	Schuylkill River <1>.....	12d	39 54.23	75 12.90	- - -	+2 31	- - -	+3 51	0.2	0.2	- -	- -	0.2	351	- -	- -	0.3	172
4346	Eagle Point, 0.2 n.mi. northwest of.....	17d	39 52.82	75 10.38	+5 13	+3 59	+4 27	+4 58	1.1	1.3	0.0	- -	1.6	091	0.0	- -	1.8	271
	...do.....	40d	39 52.82	75 10.38	+5 07	+3 44	+4 22	+4 57	0.8	1.0	0.0	- -	1.1	090	0.0	- -	1.3	274
4351	Gloucester.....		39 53.4	75 08.1	+5 14	+5 01	+4 45	+5 21	1.6	1.5	0.0	- -	2.2	020	0.0	- -	2.0	210
4356	Greenwich Point, northeast of.....		39 54.5	75 07.6	+5 19	+4 52	+4 46	+5 22	1.1	1.2	0.0	- -	1.6	002	0.0	- -	1.6	188
4361	Camden Marine Terminals, E of Chan. <29>		39 56.4	75 08.2	+5 53	+5 12	+5 08	+5 28	0.9	0.8	0.0	- -	1.3	005	0.0	- -	1.1	174

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	DELAWARE BAY and RIVER Time meridian, 75°W				on DELAWARE BAY ENTRANCE, p.58									
4366	Petty Island (west end), Main Channel...	24d	39 58.03	75 07.13	+5 34	+4 49	+4 40	+5 00	1.3	1.3	0.0 - -	1.8 066	0.0 - -	1.8 248
4371	Fisher Point.....		39 58.9	75 04.2	+6 08	+5 45	+5 15	+5 27	1.0	1.3	0.0 - -	1.4 041	0.0 - -	1.7 223
4376	Fivemile Point Bridge, northeast of.....	35d	39 59.18	75 03.75	+5 29	+4 52	+4 33	+4 20	1.1	1.0	0.0 - -	1.5 038	0.0 - -	1.3 214
4381	Torresdale, west of channel.....		40 02.4	74 59.4	+6 55	+5 55	+4 51	+6 07	0.6	1.2	0.0 - -	0.9 044	0.0 - -	1.6 223
4386	Rancocas Creek, off Delanco.....		40 02.6	74 57.6	+6 37	+6 24	+5 43	+6 29	0.7	0.7	0.0 - -	1.0 090	0.0 - -	0.9 272
4391	College Point, 0.4 n.mi. east of.....	21d	40 04.65	74 53.20	+6 34	+4 54	+5 01	+4 50	0.8	0.9	0.0 - -	1.2 084	0.0 - -	1.2 252
4396	Bristol, south of.....	8	40 05.3	74 51.6	+6 56	+5 30	+4 49	+6 31	0.9	1.2	0.0 - -	1.3 024	0.0 - -	1.6 200
4401	Burlington Island, channel east of.....		40 05.7	74 50.2	+7 33	+5 45	+4 08	+7 07	0.6	1.4	0.0 - -	0.9 018	0.0 - -	1.8 204
4406	Newbold Island north of, Main Channel..	15d	40 08.03	74 45.38	+6 27	+4 29	+4 28	+3 51	0.5	0.4	0.0 - -	0.7 084	0.0 - -	0.5 250
4411	Whitehill <30>.....		40 08.2	74 44.2	- - -	- - -	- - -	+7 28	- -	1.1	0.0 - -	- - - -	0.0 - -	1.4 233
	DEL., MD. and VA. COAST													
4416	Indian River Inlet (bridge).....		38 37	75 04	- - -	+0 04	- - -	+0 31	1.3	1.6	0.0 - -	1.8 265	0.0 - -	2.1 085
4421	Fenwick Shoal Lighted Whistle Buoy 2....		38 25	74 46	See table 5.									
4426	Winter-Quarter Shoal Buoy 6WQS <31>.....		37 55	74 56	See table 5.									
					on CHESAPEAKE BAY ENTRANCE, p.64									
4431	Smith Island Shoal, southeast of.....	7	37 05.3	75 43.5	-1 36	-1 17	-1 35	-1 34	0.4	0.3	- - - -	0.3 298	- - - -	0.4 068
4436	Cape Henry Light, 2.2 miles southeast of		36 53.9	75 58.7	-1 16	-0 23	-0 10	-1 10	1.2	0.7	- - - -	1.0 346	- - - -	0.9 165
	CHESAPEAKE BAY													
4441	Cape Henry Light, 1.1 n.mi. NNE of.....	15d	36 56.33	75 59.98	+0 26	+0 03	-0 04	+0 10	1.3	1.3	- - - -	1.0 298	- - - -	1.7 113
4446	Cape Henry Light, 2.0 n.mi. north of....	15d	36 57.53	76 00.63	+0 12	+0 25	+1 00	+0 20	1.5	0.9	0.1 210	1.2 289	- - - -	1.1 110
	...do.....	39d	36 57.53	76 00.63	-0 23	+0 10	+0 55	-0 17	1.5	0.5	0.1 012	1.2 277	0.1 190	0.7 110
	...do.....	54d	36 57.53	76 00.63	-1 03	+0 07	+0 34	-1 05	1.1	0.4	0.1 002	0.9 263	0.2 177	0.5 111
4451	CHESAPEAKE BAY ENTRANCE.....	15d	36 58.80	75 59.88	Daily predictions						0.0 - -	0.8 300	0.0 - -	1.2 129
4456	Cape Henry Light, 4.6 miles north of....		37 00.1	75 59.3	-0 27	+0 09	+0 19	+0 23	1.6	1.0	- - - -	1.3 294	- - - -	1.3 104
4461	Cape Henry Light, 5.9 n.mi. north of....	14d	37 01.40	75 59.55	-0 59	-0 09	-0 26	-0 36	0.8	0.5	0.1 228	0.6 307	- - - -	0.7 140
4466	Lynnhaven Roads.....		36 55.1	76 04.9	-0 20	+0 18	+0 15	-0 10	1.0	0.7	- - - -	0.8 280	- - - -	0.9 070
4471	Lynnhaven Inlet bridge.....		36 54.4	76 05.6	-1 18	-1 10	-1 43	-2 30	0.7	1.1	- - - -	0.6 180	- - - -	1.4 000
	Chesapeake Bay Bridge Tunnel													
4476	Chesapeake Beach, 1.5 miles north of.		36 56.69	76 07.33	+0 29	+0 48	+0 06	+0 00	1.0	0.7	- - - -	0.8 305	- - - -	0.9 100
4481	Thimble Shoal Channel (Buoy "10")....	15d	36 58.73	76 07.57	-0 04	+0 30	+0 45	+0 16	1.4	0.6	0.1 228	1.1 302	- - - -	0.7 122
	...do.....	45d	36 58.73	76 07.57	-0 55	+0 15	+1 25	-0 17	0.8	0.2	- - - -	0.7 285	- - - -	0.3 105
4486	Tail of the Horseshoe.....		36 59.57	76 06.20	+0 05	+0 30	+0 16	+0 28	1.1	0.8	- - - -	0.9 300	- - - -	1.0 110
4491	Cape Henry Light, 8.3 mi. NW of.....	12	37 02.20	76 06.60	+0 16	+0 43	+0 45	+0 26	1.2	0.9	- - - -	1.0 329	- - - -	1.1 133
4496	Chesapeake Channel (bridge tunnel)...		37 02.50	76 04.33	+0 05	+0 38	+0 32	+0 19	2.2	1.2	- - - -	1.8 335	- - - -	1.5 145
4501	Chesapeake Channel (Buoy "11").....	13d	37 03.40	76 05.58	-0 30	+0 33	+0 50	+0 38	0.8	0.4	0.2 037	0.6 311	0.1 229	0.4 125
	...do.....	34d	37 03.40	76 05.58	-0 21	+0 27	+0 57	-0 07	0.7	0.3	0.2 032	0.6 309	0.1 232	0.4 139
4506	Fisherman Island, 3.2 miles WSW of...		37 04.00	76 02.25	-0 22	-0 12	-0 17	-0 36	1.5	1.3	- - - -	1.2 330	- - - -	1.6 135
4511	Fisherman Island, 1.4 miles WSW of...		37 04.78	76 00.25	-1 09	-0 02	-0 12	-1 02	2.2	0.9	- - - -	1.8 330	- - - -	1.1 140
4516	Fisherman I.Bridge 1.4 n.mi. S of....	16d	37 03.37	75 58.33	-0 19	-0 29	-0 15	-0 26	1.2	1.1	0.2 218	1.0 297	- - - -	1.4 126
	...do.....	26d	37 03.37	75 58.33	-0 37	-0 19	-0 16	-0 34	1.0	0.8	- - - -	0.8 290	- - - -	1.0 120
4521	Fisherman I. Bridge, 0.7 n.mi. S of..	15d	37 04.85	75 58.83	-0 57	-0 15	-0 24	-0 35	1.9	1.5	0.2 223	1.5 306	0.1 218	1.9 140

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb		
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.
	CHESAPEAKE BAY Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64											
	Chesapeake Bay Bridge Tunnel															
4526	Fisherman I., 0.4 mile west of.....		37 05.57	75 59.33	-0 21	-0 08	-0 06	-0 42	2.5	1.6	- -	- -	2.0	005	- -	- -	2.0	175
4531	Fisherman I., 1.4 n.mi. WNW of.....	16d	37 06.10	76 00.33	-0 28	-0 14	+0 12	-0 27	1.4	1.0	0.1	060	1.2	333	0.1	247	1.2	155
4536	Fisherman I., 1.1 miles northwest of.		37 06.50	76 00.00	-0 39	+0 20	+0 23	-0 19	2.2	1.3	- -	- -	1.8	355	- -	- -	1.6	165
4541	Cape Charles, off Wise Point.....	5	37 06.88	75 58.30	+0 09	+0 37	+0 56	+1 20	0.9	0.2	- -	- -	0.7	305	- -	- -	0.2	075
4546	Little Creek, 0.2 n.mi. N of east jetty.	15d	36 56.05	76 10.60	-1 01	-1 18	-0 39	-1 01	0.4	0.3	- -	- -	0.3	278	- -	- -	0.3	092
4551	Butler Bluff, 2.1 n.mi. WSW of.....	14d	37 09.37	76 01.60	+0 02	+0 14	+0 57	+0 02	0.9	0.7	- -	- -	0.8	348	- -	- -	0.8	164
4556	York Spit Channel, N of Buoy "26".....	7	37 12.90	76 08.50	+1 33	+1 50	+1 24	+1 26	1.0	0.9	- -	- -	0.8	010	- -	- -	1.1	195
4561	Old Plantation Flats Lt., 0.5 mi. W of..		37 14.00	76 04.10	+1 31	+2 01	+1 55	+1 06	1.5	1.0	- -	- -	1.2	005	- -	- -	1.3	175
4566	Cape Charles City, 3.3 n.mi. west of....	15d	37 15.87	76 05.62	+0 38	+1 18	+1 03	+1 01	1.2	0.8	0.2	280	1.0	356	0.1	094	1.0	187
	...do.....	40d	37 15.87	76 05.62	+0 16	+0 43	+1 10	+0 30	1.1	0.7	- -	- -	0.9	356	0.1	284	0.8	182
	...do.....	95d	37 15.87	76 05.62	+0 29	+1 00	+1 37	+1 24	1.2	0.7	0.1	223	1.0	322	- -	- -	0.8	138
4571	New Point Comfort, 4.1 n.mi. ESE of.....	15d	37 17.40	76 11.45	+1 07	+1 22	+0 46	+0 46	1.0	0.8	0.3	296	0.8	018	0.3	098	1.0	202
4576	Wolf Trap Light, 0.5 mile west of.....		37 23.4	76 11.9	+1 43	+2 00	+1 34	+1 36	1.2	1.0	- -	- -	1.0	015	- -	- -	1.2	190
4581	Wolf Trap Light, 5.8 miles east of.....		37 23.1	76 04.3	+2 23	+2 40	+2 14	+2 16	1.1	1.0	- -	- -	0.9	015	- -	- -	1.3	175
4586	Church Neck Point, 1.9 n.mi. W of.....	15d	37 24.20	76 00.78	+0 46	+1 37	+1 36	+0 50	0.6	0.3	- -	- -	0.4	003	- -	- -	0.4	177
4591	Wolf Trap Light, 6.1 n.mi. ENE of.....	14d	37 24.50	76 03.83	+1 40	+1 58	+2 28	+2 11	1.6	0.9	0.2	275	1.3	006	0.2	098	1.1	191
	...do.....	29d	37 24.50	76 03.83	+0 26	+0 55	+1 27	+1 07	0.8	0.5	0.2	099	0.7	012	0.2	279	0.7	173
4596	Wolf Trap Light, 5.2 n.mi. ENE of.....	15d	37 24.50	76 05.00	+1 43	+2 34	+2 41	+2 09	1.6	0.9	0.2	283	1.3	010	0.2	098	1.1	187
	...do.....	40d	37 24.50	76 05.00	+1 07	+2 24	+2 43	+1 19	1.3	0.5	0.2	089	1.0	352	0.2	266	0.7	183
	...do.....	63d	37 24.50	76 05.00	+0 24	+1 22	+2 05	+1 11	1.0	0.5	- -	- -	0.8	343	- -	- -	0.6	158
4601	Wolf Trap Light, 1.4 n.mi. NNE of.....	15d	37 24.67	76 10.57	+1 38	+2 16	+1 52	+1 19	1.4	0.9	- -	- -	1.1	005	0.2	088	1.2	175
4606	Wolf Trap Light, 2.0 n.mi. NW of.....	14d	37 25.00	76 12.90	+0 03	+0 33	+1 05	+0 08	0.7	0.4	- -	- -	0.6	345	- -	- -	0.6	166
4611	Nassawadox Point, 1.9 n.mi. NW of.....	13d	37 29.97	75 59.37	+1 16	+1 43	+1 56	+1 36	0.8	0.5	- -	- -	0.6	352	0.1	270	0.6	178
4616	Gwynn Island, 8.0 n.mi. east of.....	14d	37 29.70	76 06.50	+2 03	+3 03	+2 48	+2 33	1.2	0.9	0.2	267	1.0	357	0.2	090	1.1	175
	...do.....	28d	37 29.70	76 06.50	+0 33	+1 07	+1 46	+0 23	0.7	0.4	0.2	102	0.6	013	0.3	281	0.5	209
4621	Gwynn Island, 1.5 n.mi. east of.....	16d	37 30.03	76 14.70	+0 59	+0 54	+0 54	+0 22	0.6	0.4	- -	- -	0.5	331	0.1	227	0.5	159
4626	Stingray Point, 5.5 miles east of.....		37 35.0	76 10.4	+2 28	+3 36	+3 21	+2 32	1.2	0.7	- -	- -	1.0	343	- -	- -	0.9	179
4631	Stingray Point, 12.5 miles east of.....		37 33.8	76 02.3	+2 18	+3 00	+2 09	+2 36	1.2	0.6	- -	- -	1.0	030	- -	- -	0.8	175
4636	Powells Bluff, 2.2 n.mi. NW of.....	17d	37 35.45	75 58.1	+1 21	+1 29	+1 54	+1 23	0.8	0.5	0.1	101	0.6	015	0.1	284	0.6	201
4641	Windmill Point Light, 8.3 n.mi. ESE of..	14d	37 34.60	76 03.80	+2 18	+2 57	+3 04	+2 46	1.1	0.7	0.1	270	0.9	359	0.1	095	0.8	182
	...do.....	33d	37 34.60	76 03.80	+1 06	+1 22	+3 07	+2 14	0.6	0.3	0.2	099	0.5	017	0.2	255	0.4	172
4646	Windmill Point Light, 2.2 n.mi. ESE of..	14d	37 35.30	76 11.50	+2 49	+2 38	+2 21	+2 29	0.8	0.7	0.1	079	0.6	001	0.1	081	0.9	169
	...do.....	35d	37 35.30	76 11.50	+1 08	+1 35	+2 01	+1 44	0.8	0.3	- -	- -	0.6	342	0.1	246	0.4	175
4651	Milby Point, 5.3 n.mi. WNW of.....	13d	37 39.85	76 00.52	+2 13	+2 30	+2 28	+2 32	0.7	0.5	- -	- -	0.6	016	0.2	297	0.7	210
	...do.....	38d	37 39.85	76 00.52	+0 33	+0 12	+1 12	+0 40	0.6	0.3	0.1	120	0.5	043	- -	- -	0.4	197
4656	Bluff Point, 4.6 n.mi. east of.....	13d	37 40.70	76 12.25	+3 10	+3 25	+2 25	+2 46	0.4	0.6	- -	- -	0.4	003	- -	- -	0.7	178
	...do.....	33d	37 40.70	76 12.25	+1 30	+2 01	+2 32	+2 01	0.5	0.2	0.1	089	0.4	013	0.1	291	0.2	185
4661	Tangier Sound Light, 5.8 n.mi. west of..	15d	37 47.03	76 05.68	+3 34	+4 09	+3 56	+3 26	0.6	0.6	- -	- -	0.5	344	0.2	255	0.7	185
4666	Great Wicomico R. Lt., 3.8 n.mi. ESE of.	14d	37 47.00	76 11.50	+3 20	+4 17	+3 54	+3 52	0.5	0.4	0.1	273	0.4	355	0.1	280	0.5	196
	...do.....	39d	37 47.00	76 11.50	+2 11	+3 27	+4 50	+3 22	0.8	0.2	- -	- -	0.6	013	- -	- -	0.3	196
4671	Smith Point Light, 6.7 n.mi. east of....	9d	37 52.83	76 02.65	+2 29	+2 57	+2 45	+1 59	0.5	0.3	- -	- -	0.4	352	- -	- -	0.4	178
4676	Smith Point Light, 4.5 n.mi. east of....	14d	37 52.67	76 05.30	+3 27	+4 04	+3 49	+3 35	0.7	0.6	- -	- -	0.5	341	0.1	249	0.7	171
	...do.....	24d	37 52.67	76 05.30	+3 18	+3 27	+3 09	+3 06	0.4	0.4	- -	- -	0.4	347	0.1	256	0.5	168
4681	Smith Point Light, 3.0 n.mi. east of....	15d	37 52.65	76 07.08	+4 30	+4 55	+3 42	+3 32	0.5	0.6	- -	- -	0.4	342	- -	- -	0.7	167
	...do.....	34d	37 52.65	76 07.08	+2 15	+2 22	+3 16	+3 34	0.5	0.2	0.1	080	0.4	348	0.1	272	0.3	149

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat. N	POSITION Long. W	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° '	° '	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CHESAPEAKE BAY Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64													
4686	Smith Point Light, 1.5 n.mi. east of....	14d	37 52.75	76 09.12	+4 27	+4 33	+3 44	+4 23	0.5	0.6	0.1	068	0.4	347	- -	- -	0.7	159
	...do.....	39d	37 52.75	76 09.12	+2 49	+4 21	+4 29	+3 34	1.0	0.4	- -	- -	0.8	013	0.1	098	0.5	176
	...do.....	68d	37 52.75	76 09.12	+2 10	+2 42	+4 09	+2 37	0.5	0.3	- -	- -	0.4	356	0.1	243	0.3	160
4691	Smith Point Light, 0.8 n.mi. NW of.....	8d	37 53.23	76 11.90	+2 28	+2 45	+3 13	+2 27	1.1	0.6	0.2	079	0.9	021	0.3	097	0.8	150
4696	Smith Point Light, 6 miles north of.....		37 58.9	76 11.4	+4 28	+4 30	+4 19	+4 06	0.5	0.8	- -	- -	0.4	350	- -	- -	1.0	135
4701	Smith Island, 3.6 n.mi. northwest of....	15d	38 00.45	76 07.28	+2 48	+3 12	+3 39	+3 18	0.6	0.4	0.1	096	0.5	014	- -	- -	0.4	187
4706	Point Lookout, 5.9 n.mi. ESE of.....	15d	38 00.88	76 12.12	+3 45	+4 53	+4 57	+4 15	0.5	0.3	- -	- -	0.4	340	- -	- -	0.4	161
	...do.....	51d	38 00.88	76 12.12	+2 45	+4 30	+4 36	+3 32	0.4	0.1	- -	- -	0.4	330	- -	- -	0.2	167
4711	Point Lookout, 1.5 n.mi. east of.....	16d	38 02.30	76 17.50	See Rotary tidal currents													
4716	Point Lookin.....		38 06.6	76 13.1	+5 13	+6 10	+5 04	+4 46	0.5	0.4	- -	- -	0.4	010	- -	- -	0.5	160
4721	Adams Island, 1.1 n.mi. west of.....	12d	38 08.67	76 06.87	+4 35	+3 48	+2 57	+3 26	0.1	0.2	- -	- -	0.1	017	- -	- -	0.3	191
4726	Adams Island, 3.4 n.mi west of.....	16d	38 08.38	76 09.80	+4 58	+5 10	+4 03	+4 36	0.2	0.3	- -	- -	0.2	325	0.1	257	0.4	167
4731	Point No Point, 4.3 n.mi. east of.....	17d	38 08.13	76 13.75	+4 49	+5 33	+6 04	+5 45	0.4	0.2	- -	- -	0.3	340	- -	- -	0.2	170
4736	Point No Point, 2.8 n.mi. east of.....	15d	38 08.38	76 15.67	+5 21	+5 32	+4 44	+5 06	0.3	0.4	- -	- -	0.2	340	- -	- -	0.5	172
	...do.....	39d	38 08.38	76 15.67	+3 37	+5 00	+5 42	+4 54	0.4	0.1	- -	- -	0.4	347	- -	- -	0.2	162
4741	Point No Point, 1.0 n.mi. east of.....	17d	38 08.43	76 18.13	+4 42	+5 06	+4 31	+4 34	0.4	0.4	- -	- -	0.3	001	- -	- -	0.5	172
4746	Hooper Strait (west), at buoy "2".....	15d	38 13.25	76 06.20	+2 05	+2 28	+2 33	+1 40	0.7	0.4	- -	- -	0.6	035	0.2	304	0.6	233
					on BALTIMORE HARBOR APPROACH, p.70													
4751	Cedar Point, 2.9 n.mi. ENE of.....	16d	38 18.65	76 18.80	-2 35	-2 34	-3 16	-2 55	0.5	0.8	- -	- -	0.4	347	- -	- -	0.7	164
	...do.....	50d	38 18.65	76 18.80	-4 08	-3 30	-3 05	-3 15	0.5	0.3	- -	- -	0.4	326	- -	- -	0.3	141
4756	Cedar Point, 1.1 miles ENE of.....		38 18.27	76 21.10	-3 23	-2 50	-2 36	-3 42	0.5	0.8	0.0	- -	0.4	010	0.0	- -	0.6	185
4761	Drum Point, 2.8 miles northeast of.....		38 20.18	76 21.95	- - -	-3 12	- - -	-2 42	0.2	0.5	0.0	- -	0.2	335	0.0	- -	0.4	185
4766	Cove Point, 1.1 n.mi. east of	17d	38 22.88	76 21.62	-2 57	-2 42	-2 40	-2 14	0.9	0.9	- -	- -	0.7	342	- -	- -	0.7	165
	...do.....	40d	38 22.88	76 21.62	-3 22	-3 19	-2 38	-3 26	0.8	0.7	- -	- -	0.6	343	0.1	246	0.6	165
4771	Cove Point, 2.7 n.mi. east of.....	15d	38 22.80	76 19.52	-2 23	-2 41	-2 59	-2 40	0.5	0.9	- -	- -	0.4	344	- -	- -	0.7	169
	...do.....	40d	38 22.80	76 19.52	-3 15	-2 39	-1 53	-2 40	0.9	0.6	- -	- -	0.8	347	- -	- -	0.5	170
	...do.....	98d	38 22.80	76 19.52	-3 49	-4 02	-3 13	-3 36	0.7	0.5	- -	- -	0.6	341	- -	- -	0.4	165
4776	Cove Point, 3.9 n.mi. east of.....	11d	38 22.52	76 17.92	-3 29	-3 36	-4 08	-3 44	0.4	0.6	- -	- -	0.3	346	- -	- -	0.4	171
4781	Cove Point, 4.9 n.mi. NNE of.....	15d	38 28.03	76 22.60	-2 57	-2 29	-2 24	-2 26	0.7	0.7	- -	- -	0.6	333	- -	- -	0.6	159
	...do.....	40d	38 28.03	76 22.60	-3 23	-2 47	-1 58	-2 17	1.0	0.4	- -	- -	0.8	332	- -	- -	0.3	149
	...do.....	67d	38 28.03	76 22.60	-3 55	-3 38	-2 14	-2 58	0.6	0.4	- -	- -	0.4	321	- -	- -	0.4	135
4786	Kenwood Beach, 1.5 miles northeast of...		38 31.1	76 28.9	-1 56	-2 41	-2 46	-2 37	0.2	0.4	0.0	- -	0.2	340	0.0	- -	0.3	160
4791	James Island, 3.4 miles west of.....		38 31.5	76 25.2	-2 16	-2 39	-3 01	-2 02	0.5	0.4	0.0	- -	0.4	005	0.0	- -	0.3	175
4796	James Island, 2.5 miles WNW of.....		38 32.0	76 23.6	-2 31	-2 42	-2 18	-2 36	0.5	0.6	0.0	- -	0.4	000	0.0	- -	0.5	175
4801	Plum Point, 1.4 miles ESE of.....		38 36.75	76 28.65	-1 31	-1 37	-2 20	-2 04	0.2	0.7	0.0	- -	0.2	000	0.0	- -	0.6	155
4806	Sharp Island Lt., 2.3 n.mi. SE of.....	20d	38 36.43	76 20.88	-3 15	-3 34	-3 07	-2 54	0.8	0.7	0.1	116	0.7	037	- -	- -	0.6	203
4811	Sharp Island Lt., 2.1 n.mi. west of.....	18d	38 38.60	76 25.22	-1 49	-1 36	-1 33	-1 33	0.4	0.5	- -	- -	0.4	357	- -	- -	0.4	183
4816	Sharp Island Lt., 3.4 n.mi. west of.....	18d	38 38.63	76 26.88	-1 39	-1 41	-1 57	-1 43	0.4	0.5	- -	- -	0.3	355	- -	- -	0.4	186
	...do.....	35d	38 38.63	76 26.88	-2 34	-2 23	-2 23	-2 24	0.4	0.4	- -	- -	0.3	353	0.1	272	0.3	183
4821	Plum Point, 2.1 n.mi. NNE of.....	15d	38 38.70	76 29.23	-1 50	-1 51	-1 51	-2 01	0.4	0.5	- -	- -	0.3	350	- -	- -	0.4	174
4826	Poplar Island, 2.2 n.mi. WSW of.....	14d	38 45.37	76 25.77	-0 44	-1 26	-0 57	-0 49	0.6	0.8	- -	- -	0.5	359	- -	- -	0.6	185
4831	Poplar Island, 3.0 n.mi. WSW of.....	15d	38 44.98	76 26.73	-1 08	-1 22	-0 59	-1 08	0.6	0.5	- -	- -	0.4	355	- -	- -	0.4	189
	...do.....	48d	38 44.98	76 26.73	+0 58	+1 21	+2 01	+1 13	0.5	0.4	0.1	085	0.4	350	- -	- -	0.3	172
4836	Holland Point, 2.0 n.mi east of.....	15d	38 45.10	76 29.93	-1 20	-1 24	-1 45	-1 39	0.2	0.4	- -	- -	0.2	354	- -	- -	0.3	180
4841	Kent Point, 4 miles southwest of.....		38 47.50	76 26.00	-1 03	-1 04	-1 11	-1 05	0.6	0.6	0.0	- -	0.5	025	0.0	- -	0.5	210
4846	Kent Point, 1.3 miles south of.....		38 49.00	76 21.85	-3 27	-3 38	-3 53	-3 47	0.6	0.5	0.0	- -	0.4	055	0.0	- -	0.4	235

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CHESAPEAKE BAY Time meridian, 75°W				on BALTIMORE HARBOR APPROACH, p. 70													
4851	Horseshoe Point, 1.7 miles east of.....		38 50.30	76 27.20	-0 52	-0 39	-0 49	-1 10	0.6	0.6	0.0	- -	0.5	005	0.0	- -	0.5	200
4856	Bloody Point Bar Light, 0.6 mi. NW of...	19	38 50.37	76 24.17	-0 08	-0 23	+0 02	-0 05	0.9	0.6	0.0	- -	0.7	035	0.0	- -	0.5	190
4861	Thomas Pt. Shoal Lt., 1.8 mi. SW of.....		38 52.50	76 27.70	-2 24	-2 27	-1 43	-2 17	0.5	0.4	0.0	- -	0.4	340	0.0	- -	0.3	190
4866	Thomas Pt. Shoal Lt., 2.0 n.mi. east of.	22d	38 53.75	76 23.21	-1 05	-0 14	-0 22	-0 20	0.6	0.6	- -	- -	0.5	007	- -	- -	0.5	186
4871	Thomas Pt. Shoal Lt., 0.5 n.mi. SE of...	16d	38 53.46	76 25.62	-0 25	-0 09	-0 43	-0 41	1.0	1.3	0.1	102	0.8	033	0.1	120	1.0	191
	...do.....	33d	38 53.46	76 25.62	-0 54	-1 18	-1 25	-1 20	0.7	0.7	- -	- -	0.6	018	- -	- -	0.6	196
4876	Tolly Point, 1.6 miles east of.....		38 56.07	76 25.02	-0 03	-0 19	-0 32	-0 24	0.6	0.9	0.0	- -	0.5	355	0.0	- -	0.7	190
4881	Chesapeake Bay Bridge, main channel.....		38 59.50	76 23.10	+0 16	+0 08	-0 17	+0 13	0.9	1.1	0.0	- -	0.7	025	0.0	- -	0.9	230
4886	Sandy Point, 2.3 n.mi. east of.....	15d	39 00.16	76 20.93	+0 19	+0 15	+0 13	+0 29	1.1	0.9	- -	- -	0.8	020	- -	- -	0.7	199
	...do.....	41d	39 00.16	76 20.93	-1 33	-1 14	-0 48	-0 39	0.8	0.6	- -	- -	0.7	021	- -	- -	0.5	210
4891	Sandy Point, 0.8 n.mi. ESE of.....	15d	39 00.24	76 22.80	-0 11	+0 24	-0 15	+0 05	1.2	1.5	- -	- -	0.9	025	- -	- -	1.2	199
	...do.....	43d	39 00.24	76 22.80	-0 59	-1 10	-0 59	-1 02	1.0	1.0	0.1	116	0.8	021	0.1	276	0.8	197
4896	BALTIMORE HBR. APP. (off Sandy Point)...		39 00.78	76 22.10	Daily predictions						0.0	- -	0.8	025	0.0	- -	0.8	189
4901	Craighill Channel entrance, Buoy "2C"...	15d	39 02.42	76 22.67	-0 04	+0 26	+0 01	+0 09	1.0	0.9	- -	- -	0.8	353	- -	- -	0.7	182
	...do.....	38d	39 02.42	76 22.67	0 00	+0 01	-0 06	+0 18	0.5	0.6	- -	- -	0.4	325	0.1	244	0.5	147
4906	Love Point, 2.8 miles NNE of.....		39 04.7	76 16.3	Current weak and variable													
4911	Love Point, 2.5 miles north of.....		39 04.78	76 18.73	-0 48	+0 19	+0 27	-0 07	0.8	0.5	0.0	- -	0.6	055	0.0	- -	0.4	240
4916	Craighill Channel, NE of Mountain Pt....		39 04.88	76 23.67	+0 28	+0 40	+0 25	+0 34	0.8	0.9	0.0	- -	0.6	350	0.0	- -	0.7	175
4921	Craighill Channel, Belvidere Shoal.....	18d	39 05.68	76 23.58	+0 10	+0 46	+0 33	+0 19	0.7	0.6	- -	- -	0.6	360	0.1	270	0.5	186
4926	Craighill Angle, right outside quarter..		39 07.70	76 23.27	+0 12	+0 27	+0 34	+0 23	0.6	0.6	0.0	- -	0.5	345	0.0	- -	0.5	170
4931	Swan Point, 2.7 n.mi. SW of.....	14d	39 06.48	76 18.32	+0 18	+0 42	+0 38	+0 25	0.6	0.5	0.1	078	0.5	006	- -	- -	0.4	170
	...do.....	27d	39 06.48	76 18.32	-0 27	+0 30	+1 17	+0 25	0.6	0.4	- -	- -	0.4	342	- -	- -	0.3	142
4936	Swan Point, 2.15 n.mi. west of.....	18d	39 08.85	76 19.48	+0 18	+0 50	+1 05	+1 06	0.8	0.7	- -	- -	0.7	008	0.1	271	0.5	203
4941	Swan Point, 1.6 miles northwest of.....		39 09.75	76 18.28	+0 53	+0 44	+0 38	+0 57	0.8	0.9	0.0	- -	0.6	020	0.0	- -	0.7	215
4946	Brewerton Channel Eastern Ext., Buoy "7"	14d	39 09.78	76 23.38	+0 16	-0 02	-0 14	-0 05	0.5	0.4	0.2	080	0.4	013	- -	- -	0.3	175
4951	Tolchester Channel, SW of Buoy "58B"....	17d	39 10.95	76 16.87	+0 44	+0 20	+0 48	+0 54	1.1	1.1	0.2	302	0.9	030	- -	- -	0.9	229
	...do.....	25d	39 10.95	76 16.87	-0 09	+0 02	+0 38	-0 48	0.9	0.7	- -	- -	0.7	025	- -	- -	0.5	217
4956	Tolchester Channel, south of Buoy "G17".	15d	39 11.47	76 15.95	+1 43	+1 10	+0 59	+1 23	0.9	0.8	- -	- -	0.7	061	0.1	151	0.7	231
4961	Tolchester Channel, south of Buoy "38B".	15d	39 11.57	76 17.27	+0 51	+1 08	+0 59	+0 50	0.7	0.8	- -	- -	0.5	028	- -	- -	0.6	208
4966	North Point, 2.5 miles northeast of.....	7	39 12.87	76 23.72	+1 25	+1 00	+0 53	+1 06	0.4	0.5	0.0	- -	0.3	035	0.0	- -	0.4	225
4971	Tolchester Beach, 0.33 n.mi. west of....	15d	39 13.03	76 14.90	+0 49	+1 20	+1 22	+1 24	1.2	1.1	0.1	285	1.0	015	- -	- -	0.8	201
4976	Pooles Island, 4 miles southwest of.....		39 13.60	76 19.83	+0 59	+0 48	+0 56	+1 12	0.6	0.8	0.0	- -	0.5	025	0.0	- -	0.6	210
4981	Pooles Island 2.0 n.mi. SSW of.....	15d	39 14.78	76 17.80	+1 01	+0 58	+1 03	+1 29	0.7	0.7	0.2	327	0.6	038	- -	- -	0.6	238
4986	Pooles Island, 0.8 mile south of.....		39 15.7	76 16.4	+1 29	+1 24	+1 12	+1 20	0.9	1.2	0.0	- -	0.7	060	0.0	- -	1.0	255
4991	Miller Island, 1.5 miles ENE of.....	7	39 16.5	76 19.9	+0 11	+0 15	+0 37	+0 25	0.6	0.3	0.0	- -	0.5	000	0.0	- -	0.2	185
4996	Pooles Island, 1.6 n.mi. east of.....	16d	39 16.47	76 13.57	+1 28	+1 34	+1 45	+1 03	1.1	1.1	- -	- -	0.9	014	0.1	289	0.8	208
5001	Robins Point, 0.7 mile ESE of.....	5	39 17.75	76 16.10	-0 03	-0 14	+0 37	-0 13	1.4	1.0	0.0	- -	1.1	025	0.0	- -	0.8	210
5006	Worton Point, 1.5 n.mi. WSW of.....	17d	39 18.70	76 13.03	+2 04	+1 45	+1 27	+1 36	1.0	1.1	- -	- -	0.8	023	0.2	298	0.9	211
5011	Worton Point, 1.1 miles northwest of....		39 19.9	76 12.0	+1 43	+1 43	+1 38	+1 32	1.4	1.5	0.0	- -	1.1	040	0.0	- -	1.2	245
5016	Howell Point, 0.8 n.mi. west of.....	15d	39 22.23	76 07.80	+2 30	+1 48	+1 19	+1 33	1.0	1.3	- -	- -	0.8	051	- -	- -	1.0	235
5021	Howell Point, 0.4 mile NNW of.....		39 22.6	76 06.9	+1 28	+1 24	+1 20	+1 18	1.1	1.1	0.0	- -	0.9	080	0.0	- -	0.9	245
5026	Grove Point, 0.7 n.mi.NW of.....	14d	39 23.78	76 03 02	+2 40	+2 01	+1 31	+2 03	0.6	1.0	0.1	131	0.5	034	- -	- -	0.8	211
5031	Turkey Point, 1.2 n.mi. SW of.....	9d	39 26.60	76 02.03	+2 39	+1 30	+0 58	+1 00	0.6	0.8	0.2	101	0.5	021	- -	- -	0.6	193
5036	Spesutie Island, channel north of.....	7	39 28.83	76 04.90	+1 42	+1 20	+1 49	+1 40	0.8	0.6	0.0	- -	0.6	285	0.0	- -	0.5	100
5041	Rocky Pt. (Elk Neck), 0.25 n.mi. SW of..	9d	39 29.30	75 59.85	+2 42	+1 28	+1 14	+1 49	0.6	0.7	- -	- -	0.5	009	- -	- -	0.6	196
5045	Red Point, 0.2 mile W of, Northeast R...	7	39 31.75	75 59.08	+1 42	+1 28	+1 57	+1 47	0.9	0.6	0.0	- -	0.7	- -	0.0	- -	0.5	- -
5051	Havre de Grace, Susquehanna River.....		39 33.13	76 05.08	Current weak and variable													

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	HAMPTON ROADS Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64													
5056	Thimble Shoal Channel (west end).....	15d	37 00.32	76 13.60	-0 15	+0 12	-0 02	+0 31	1.1	1.0	0.3	204	0.9	293	0.2	018	1.2	116
	Fort Wool																	
5061	0.9 mile northeast of.....		36 59.8	76 17.2	-0 48	-1 03	-1 13	-1 16	1.2	1.4	- -	- -	1.0	265	- -	- -	1.8	080
5066	0.4 mile northeast of.....		36 59.5	76 17.8	-1 03	-0 51	-0 56	-1 21	1.2	1.1	- -	- -	1.0	258	- -	- -	1.4	066
5071	0.7 mile southwest of.....		36 58.85	76 18.95	-1 31	-1 44	-1 55	-1 46	0.7	1.0	- -	- -	0.6	250	- -	- -	1.3	045
5076	0.2 mile northwest of.....		36 59.30	76 18.42	-1 09	-1 12	-1 10	-1 23	1.6	1.6	- -	- -	1.3	240	- -	- -	2.0	050
	Old Point Comfort																	
5081	midchannel <33>.....		36 59.3	76 19.3	-0 37	-0 12	-0 05	-0 38	1.9	1.2	- -	- -	1.5	260	- -	- -	1.5	055
5086	0.55 n.mi. east of.....	48d	37 00.12	76 17.72	-3 02	-0 32	+0 17	-2 11	1.7	0.5	- -	- -	1.4	251	- -	- -	0.6	060
5091	0.4 mile east of.....		37 00.2	76 18.0	-1 37	-1 07	-0 46	-1 41	1.6	1.0	- -	- -	1.3	235	- -	- -	1.2	045
5096	0.2 mile south of.....		36 59.77	76 18.88	-0 37	-0 25	-0 53	-1 25	2.1	1.1	- -	- -	1.7	240	- -	- -	1.4	075
5101	0.9 mile southwest of.....		36 59.33	76 19.57	-0 53	-0 14	-0 01	-1 11	2.1	1.2	- -	- -	1.7	240	- -	- -	1.5	050
5106	Willoughby Spit, 0.8 mile northwest of..		36 58.6	76 18.4	-1 32	-1 30	-1 41	-1 54	0.9	0.8	- -	- -	0.7	260	- -	- -	1.0	040
5111	Willoughby Spit, 0.7 mile north of.....		36 58.8	76 17.3	-2 20	-1 10	-1 03	-2 34	1.2	0.6	- -	- -	1.0	285	- -	- -	0.8	080
5116	Willoughby Bay entrance.....		36 57.7	76 17.9	-2 12	-1 55	-2 21	-2 19	0.4	0.3	- -	- -	0.3	135	- -	- -	0.4	330
5121	Sewells Point, channel west of.....		36 57.5	76 20.4	-0 41	-0 47	-1 23	-1 11	1.1	1.0	- -	- -	0.9	195	- -	- -	1.2	000
5126	Norfolk Harbor Reach (Buoy R "8").....	13d	36 57.00	76 20.37	-0 18	-0 42	-1 36	-0 16	0.8	0.7	- -	- -	0.6	183	0.1	094	0.9	011
	...do.....	42d	36 57.00	76 20.37	-0 33	-1 00	-0 22	+1 04	0.6	0.3	- -	- -	0.5	152	- -	- -	0.3	000
5131	Sewells Point, pierhead.....	7	36 56.8	76 20.1	-0 52	-0 40	-1 01	-1 04	0.7	0.6	- -	- -	0.6	195	- -	- -	0.8	010
	Newport News																	
5136	Channel, middle.....	15	36 57.3	76 22.9	-0 43	-0 23	-0 12	-1 01	1.3	0.8	- -	- -	1.1	244	- -	- -	1.1	076
5141	Channel, west end.....	15	36 57.20	76 24.80	-0 16	-0 20	+0 03	-0 09	0.8	0.5	- -	- -	0.7	280	0.1	010	0.6	092
5146	Middle Ground, 1 mile south of.....	7	36 56.0	76 23.2	+0 33	+0 50	+0 24	+0 26	1.4	1.0	- -	- -	1.1	270	- -	- -	1.2	100
	ELIZABETH RIVER																	
5151	Craney Island.....	15	36 53.68	76 20.15	-1 17	-1 15	-1 53	-1 48	0.9	0.7	0.1	098	0.7	177	0.2	270	0.9	001
5156	Lamberts Point.....	15	36 52.50	76 19.95	-2 03	-1 21	-1 54	-1 50	0.6	0.6	- -	- -	0.5	143	- -	- -	0.7	328
5161	West Norfolk Bridge, Western Branch.....		36 51.5	76 20.6	-2 01	-1 40	-2 06	-2 04	0.7	0.6	- -	- -	0.6	260	- -	- -	0.7	080
5166	Seaboard Coast Line RR, Pinner Point....		36 51.6	76 19.0	-2 08	-1 35	-1 31	-2 09	0.5	0.3	- -	- -	0.4	140	- -	- -	0.4	290
5171	Berkley Bridge, Eastern Branch.....		36 50.5	76 17.0	-2 25	-1 31	-1 36	-2 49	0.4	0.3	- -	- -	0.3	120	- -	- -	0.4	295
5176	Norfolk and Western RR, Bridge, E Branch		36 50.2	76 14.7	-1 32	-1 15	-1 41	-1 39	0.5	0.5	- -	- -	0.4	100	- -	- -	0.6	280
5181	Berkley, Southern Branch.....		36 50.0	76 17.8	-2 23	-1 17	-1 28	-2 27	0.4	0.4	- -	- -	0.3	215	- -	- -	0.3	330
5186	Chesapeake, Southern Branch.....		36 48.5	76 17.4	-1 58	-1 16	-1 30	-1 53	0.9	0.5	- -	- -	0.7	180	- -	- -	0.6	360
5191	Gilmerton Hwy. bridge, Southern Branch..		36 46.5	76 17.7	-2 08	-1 19	-1 43	-2 03	0.7	0.6	- -	- -	0.6	180	- -	- -	0.7	360
	NANSEMOND RIVER																	
5196	Pig Point, 1.8 miles northeast of.....		36 55.4	76 25.1	-0 48	-0 07	+0 05	-0 41	1.0	0.8	- -	- -	0.8	285	- -	- -	1.0	070
5201	Town Point Bridge, 0.5 mile east of.....		36 53.3	76 29.0	-1 25	-0 59	-0 51	-1 07	1.1	0.6	- -	- -	0.9	265	- -	- -	0.8	070
5206	Dumpling Island.....		36 48.5	76 33.5	-1 17	-1 00	-1 26	-1 24	1.2	0.8	- -	- -	1.0	175	- -	- -	1.0	345
	JAMES RIVER																	
	Newport News																	
5211	0.1 mile off shipbuilding plant.....	8	36 58.8	76 26.5	+0 47	+0 37	+0 39	+0 23	1.1	1.0	- -	- -	0.9	325	- -	- -	1.3	145
5216	0.8 mile SW of shipbuilding plant.....		36 58.5	76 27.3	+0 03	+0 18	+0 13	+0 04	1.2	1.0	- -	- -	1.0	325	- -	- -	1.2	140
5221	1.5 miles SW of shipbuilding plant...	6	36 58.1	76 28.2	-0 36	0 00	-0 03	-0 43	1.2	0.9	- -	- -	1.0	350	- -	- -	1.1	140

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ′ N	° ′ W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	JAMES RIVER Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64									
	Newport News													
	Rocklanding Shoal Channel													
5226	South end		37 03.50	76 35.63	+0 39	+1 01	+1 00	+1 14	1.0	0.9	- - - -	0.8 310	- - - -	1.1 165
5231	Middle		37 05.20	76 36.83	+0 49	+1 36	+1 43	+1 09	1.4	0.8	- - - -	1.1 345	- - - -	1.0 155
5236	North end		37 06.60	76 37.95	+1 00	+1 40	+1 47	+1 22	1.6	0.8	- - - -	1.3 340	- - - -	1.0 145
5241	Point of Shoals, west of		37 03.9	76 39.6	+2 28	+2 45	+2 19	+2 21	0.4	0.7	- - - -	0.3 325	- - - -	0.9 195
5246	Deepwater Shoals		37 08.6	76 38.2	+1 42	+2 12	+1 39	+0 57	0.5	0.7	- - - -	1.2 353	- - - -	0.9 166
5251	Hog Point		37 12	76 41.5	+2 28	+2 35	+2 19	+2 11	1.4	1.0	- - - -	1.0 260	- - - -	1.3 070
5256	Jamestown Island, Church Point		37 12.2	76 47.0	+2 24	+2 34	+2 43	+2 15	1.4	1.0	- - - -	1.1 325	- - - -	1.3 145
5261	Chickahominy River Bridge		37 15.7	76 52.5	+2 05	+2 29	+2 42	+1 59	1.6	1.0	- - - -	1.3 332	- - - -	1.2 154
5266	Caremont Landing		37 14.0	76 57.2	+3 43	+3 50	+3 34	+3 26	1.8	1.2	- - - -	1.5 290	- - - -	1.5 125
5271	Brandon Point, 0.3 mile northeast of		37 16.5	76 59.2	+3 56	+3 56	+3 37	+3 27	1.5	1.0	- - - -	1.2 350	- - - -	1.3 170
5276	Windmill Point		37 18.7	77 05.7	+4 30	+4 00	+4 04	+3 36	1.6	0.8	- - - -	1.3 310	- - - -	1.0 065
5281	Coggins Point, 0.5 mile north of		37 18.4	77 10.0	+4 45	+4 18	+4 07	+4 07	0.7	0.7	- - - -	0.6 273	- - - -	0.9 088
5286	City Point		37 19.0	77 16.3	+4 48	+4 35	+4 39	+4 11	1.6	1.0	- - - -	1.3 320	- - - -	1.2 135
5291	Appomattox River entrance		37 18.7	77 17.7	+5 24	+4 59	+4 37	+3 58	1.2	0.6	- - - -	1.0 271	- - - -	0.8 080
5296	Bermuda Hundred		37 20.2	77 16.2	+5 45	+4 52	+4 01	+4 26	1.1	1.0	- - - -	0.9 019	- - - -	1.3 199
5301	Dutch Gap Canal, 0.5 mile east of		37 22.8	77 20.8	+5 28	+5 20	+5 19	+4 56	1.0	0.7	- - - -	0.8 270	- - - -	0.9 090
5306	Rocketts <22>		37 31.2	77 25.0	- - -	- - -	- - -	- - -	- -	- -	- - - -	- - - -	- - - -	1.0 160
	YORK RIVER													
5311	York River Ent. Channel (SE end) <34>	13d	37 07.38	76 09.20	+0 50	+1 22	+1 32	+1 00	1.3	0.8	0.3 256	1.0 342	0.3 074	1.0 162
	...do	32d	37 07.38	76 09.20	-0 45	+0 58	+1 04	-0 08	0.6	0.3	0.2 083	0.5 329	0.2 246	0.4 174
5316	York Spit Light, 0.8 mile southwest of		37 12.0	76 16.0	-0 37	+0 06	+0 24	-0 13	1.0	0.6	- - - -	0.8 323	- - - -	0.8 145
5321	York River Ent. Channel (NW end)	15d	37 13.55	76 18.47	-1 47	-0 06	+0 43	-0 19	0.8	0.4	0.2 200	0.7 298	- - - -	0.5 128
5326	Tue Marshes Light, 0.7 n.mi. north of	14d	37 14.80	76 23.28	+1 32	+2 05	+1 58	+1 25	1.2	0.7	- - - -	1.0 265	- - - -	0.9 078
	...do	39d	37 14.80	76 23.28	+0 32	+1 03	+1 55	+1 02	1.1	0.5	- - - -	0.9 247	- - - -	0.6 070
	...do	49d	37 14.80	76 23.28	-2 51	-1 32	-0 31	-1 41	0.6	0.2	- - - -	0.5 249	- - - -	0.3 068
5331	Tue Marshes Light, 0.9 n.mi. WNW of	14d	37 14.28	76 24.13	-0 16	+0 09	+0 10	-0 25	1.0	0.5	- - - -	0.8 249	- - - -	0.7 069
	...do	28d	37 14.28	76 24.13	-1 15	-0 36	-0 06	-1 34	0.8	0.5	- - - -	0.6 262	- - - -	0.6 064
	Tue Marshes Light, 2.7 miles west of													
5336	Midchannel		37 14.0	76 26.6	-0 13	+0 22	+0 18	-0 23	0.7	0.5	- - - -	0.6 258	- - - -	0.6 072
5341	North edge of channel		37 14.2	76 26.6	-0 48	-0 17	-0 36	-1 01	0.6	0.6	- - - -	0.5 251	- - - -	0.7 074
5346	South edge of channel		37 13.6	76 26.5	-0 26	-0 10	-0 22	-0 24	0.5	0.4	- - - -	0.4 257	- - - -	0.5 095
5351	Yorktown		37 14.5	76 30.5	-0 30	-0 28	-0 19	-0 17	1.5	1.3	- - - -	1.2 302	- - - -	1.6 124
5356	Gloucester Point, 150 yds. southeast of		37 14.55	76 30.10	-0 35	-0 01	-0 27	-1 21	1.1	0.9	- - - -	0.9 267	- - - -	1.1 090
5361	Gloucester Point, 0.4 mile southwest of		37 14.42	76 30.65	-0 25	0 00	+0 16	-0 44	1.4	0.8	- - - -	1.1 294	- - - -	1.0 108
5366	Pages Rock, 1 mile SSE of		37 17.6	76 34.8	-0 10	+0 24	+0 13	-0 22	1.2	0.8	- - - -	1.0 303	- - - -	1.0 125
5371	Blundering Point, 0.9 mile SSW of		37 18.13	76 35.08	-0 22	+0 13	+0 37	-0 16	1.3	0.8	- - - -	1.1 293	- - - -	1.1 138
5376	Clay Bank Pier, 100 yds. southwest of		37 20.78	76 36.80	-0 02	+0 14	+1 17	-0 05	1.4	0.9	- - - -	1.1 311	- - - -	1.1 123
5381	Allmondsville		37 24	76 40	+0 48	+0 44	+0 39	+0 20	1.5	0.9	- - - -	1.2 310	- - - -	1.1 105
5386	Purtan Island, 0.7 mile southwest of		37 24.88	76 41.22	+0 49	+1 05	+0 58	+0 53	1.6	0.8	- - - -	1.3 310	- - - -	1.1 104
5391	Goff Point, 0.8 mile SSW of		37 29.97	76 47.03	+1 37	+1 36	+1 54	+1 54	1.1	0.8	- - - -	0.9 320	- - - -	1.0 123
5396	West Point, 0.8 mile below		37 30.9	76 47.5	+1 23	+1 20	+1 14	+1 06	1.4	1.2	- - - -	1.1 340	- - - -	1.5 150
5401	Lord Delaware Bridge, 100 yds. S of		37 32.22	76 47.45	+1 37	+1 30	+1 48	+1 46	1.0	0.4	- - - -	0.8 350	- - - -	0.5 210
5406	Wakema, Mattaponi River		37 39.2	76 54.0	+2 08	+2 05	+1 59	+1 41	1.7	1.4	- - - -	1.4 260	- - - -	1.7 280

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	YORK RIVER Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64									
5411	Walkerton, Mattaponi River		37 43.4	77 01.5	+3 29	+3 04	+2 50	+3 25	1.1	0.7	- - - -	0.9 275	- - - -	0.9 095
5416	Eltham Bridge, 100 yds. north of		37 32.10	76 48.42	+2 06	+2 33	+2 17	+2 14	0.7	0.8	- - - -	0.6 327	- - - -	0.9 124
5421	Lester Manor, Pamunkey River		37 34.9	76 59.4	+3 18	+3 30	+3 19	+3 06	1.5	0.8	- - - -	1.2 235	- - - -	1.0 055
5426	Northbury, Pamunkey River		37 37.6	77 07.3	+4 33	+4 50	+4 24	+4 26	0.6	1.0	- - - -	0.5 290	- - - -	1.3 100
	MOBJACK BAY and PIANKATANK RIVER													
5431	New Point Comfort, 2.0 n.mi. WSW of	16d	37 17.70	76 19.25	+1 03	+2 18	+1 52	+2 03	0.7	0.3	- - - -	0.6 315	- - - -	0.4 129
5436	Bland Point, Piankatank River		37 31.8	76 21.9	+0 08	+0 25	-0 01	+0 01	0.5	0.2	- - - -	0.4 300	- - - -	0.2 125
5441	Doctor Point, 0.4 mile west of		37 31.1	76 27.0	+0 10	-0 03	-0 48	-0 06	0.5	0.3	- - - -	0.4 311	- - - -	0.4 142
	RAPPAHANNOCK RIVER													
5446	Stringray Point, 1.2 n.mi. NE of	28d	37 34.53	76 17.08	+1 06	+0 35	-0 11	+1 01	0.5	0.4	- - - -	0.4 293	- - - -	0.5 121
5451	Windmill Point, 1.0 n.mi SSW of	15d	37 36.00	76 17.50	+1 13	+1 53	+2 29	+1 31	0.8	0.4	- - - -	0.7 286	0.1 188	0.5 103
	...do	38d	37 36.00	76 17.50	+0 38	+1 57	+2 30	+0 53	0.7	0.2	- - - -	0.6 269	- - - -	0.3 090
5456	Mosquito Point, 0.9 mile SSE of		37 35.72	76 21.08	+1 34	+2 26	+2 07	+1 12	0.8	0.7	- - - -	0.7 265	- - - -	0.8 090
5461	Mosquito Point		37 35.8	76 21.5	+1 23	+1 40	+1 14	+1 16	0.7	0.5	- - - -	0.6 290	- - - -	0.6 115
5466	Orchard Point, 1.0 mile south of		37 37.97	76 27.45	+1 27	+2 30	+2 19	+1 23	0.6	0.5	- - - -	0.5 270	- - - -	0.6 085
5471	Towles Point		37 37.8	76 30.4	+1 44	+2 02	+2 39	+1 56	0.7	0.4	- - - -	0.6 274	- - - -	0.5 103
5476	Rogue Point, 0.8 mile WNW of		37 40.28	76 33.20	- - -	+2 39	- - -	+1 58	0.7	0.5	- - - -	0.6 000	- - - -	0.6 195
5481	Waterview, 1.3 miles NNE of		37 44.95	76 35.92	+2 19	+2 54	+3 15	+2 41	0.9	0.4	- - - -	0.7 340	- - - -	0.6 155
5486	Tarpley Point, 1.5 miles south of		37 46.15	76 39.12	+2 54	+3 32	+3 49	+3 10	0.8	0.6	- - - -	0.7 300	- - - -	0.7 105
5491	Jones Point, 1.4 miles NNW of		37 48.03	76 41.58	+2 42	+3 18	+3 48	+2 58	1.4	0.7	- - - -	1.1 315	- - - -	0.9 105
5496	Sharps, 1.2 miles south of		37 48.18	76 41.92	+2 57	+3 41	+4 21	+3 32	1.1	0.6	- - - -	0.9 290	- - - -	0.8 095
5501	Bowlers Rock, 0.2 mile north of		37 49.58	76 44.00	+3 05	+3 36	+4 06	+3 21	1.3	0.9	- - - -	1.0 315	- - - -	1.1 135
5506	Accaceek Point, 0.3 mile southwest of		37 52.52	76 46.40	+3 18	+3 43	+3 56	+3 44	1.4	0.8	- - - -	1.2 335	- - - -	1.0 150
5511	Tappahannock Bridge, 1.8 miles SE of		37 55.10	76 49.27	+3 56	+4 02	+4 25	+3 59	1.7	1.1	- - - -	1.4 315	- - - -	1.3 105
5516	Tappahannock Bridge		37 56.0	76 51.2	+4 18	+4 35	+4 09	+4 11	1.6	1.0	- - - -	1.3 315	- - - -	1.2 135
5521	Port Royal		38 10.5	77 11.4	+6 48	+7 05	+6 39	+6 41	0.9	0.6	- - - -	0.7 310	- - - -	0.7 130
	POCOMOKE SOUND													
5526	Pocomoke Sound Approach		37 38.00	75 57.90	+1 14	+2 07	+2 40	+2 02	0.9	0.6	- - - -	0.7 009	- - - -	0.7 196
5531	Milby Point, 5.3 n.mi. WNW of	13d	37 39.85	76 00.52	+2 13	+2 30	+2 28	+2 32	0.7	0.5	- - - -	0.6 016	0.2 297	0.7 210
	...do	38d	37 39.85	76 00.52	+0 33	+0 12	+1 12	+0 40	0.6	0.3	0.1 120	0.5 043	- - - -	0.4 197
5536	Watts Island, 4 miles south of	7	37 43.2	75 54.0	+0 55	+0 56	+0 56	+0 27	0.7	0.5	- - - -	0.6 027	- - - -	0.6 247
5541	Watts Island, 2.3 n.mi. east of	13d	37 47.62	75 50.83	+1 58	+2 03	+2 00	+1 57	1.2	0.9	- - - -	1.0 032	- - - -	1.1 208
	...do	48d	37 47.62	75 50.83	+1 31	+1 52	+2 10	+1 17	1.2	0.7	- - - -	1.0 025	- - - -	0.9 209
5546	Long Point, 2.0 n.mi. northeast of	9d	37 54.90	75 47.90	+1 29	+1 36	+1 43	+1 30	0.5	0.3	- - - -	0.4 024	- - - -	0.3 211
5551	Pocomoke R., 0.5 mile below Shelltown		37 58.3	75 38.7	+4 08	+3 55	+3 59	+3 31	1.4	0.7	- - - -	1.1 045	- - - -	0.9 170
	TANGIER SOUND													
5556	Tangier Sound Light, 0.5 n.mi. east of	16d	37 47.25	75 57.83	+2 26	+2 38	+2 47	+2 35	1.2	0.7	0.1 115	0.9 019	- - - -	0.9 195
	...do	41d	37 47.25	75 57.83	+2 25	+2 36	+2 54	+2 24	1.2	0.7	- - - -	1.0 011	- - - -	0.9 189
5561	Tangier Sound Light, 1.5 miles NE of		37 48.5	75 57.4	+2 08	+2 57	+2 44	+2 10	1.5	0.9	- - - -	1.2 014	- - - -	1.1 220

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	TANGIER SOUND Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64													
5566	Clump Island, 2.5 n.mi. west of	15d	37 54.50	75 57.42	+3 10	+3 43	+3 46	+3 23	0.9	0.5	- -	- -	0.8	348	- -	- -	0.6	168
	...do	40d	37 54.50	75 25.42	+3 01	+3 24	+3 33	+3 16	1.0	0.5	- -	- -	0.8	342	- -	- -	0.6	166
5571	Janes Island Light, 2.3 n.mi. NNE OF	14d	38 00.05	75 54.52	+3 22	+3 53	+4 03	+3 16	0.9	0.6	- -	- -	0.7	001	- -	- -	0.7	188
	...do	39d	38 00.05	75 54.52	+3 33	+4 12	+4 20	+4 09	0.9	0.6	- -	- -	0.7	008	- -	- -	0.7	174
	...do	92d	38 00.05	75 54.52	+3 03	+4 18	+4 13	+3 35	0.7	0.3	- -	- -	0.6	348	- -	- -	0.4	181
5576	Big Annemessex River Entrance	12d	38 02.93	75 51.45	+2 12	+2 14	+2 16	+1 43	0.4	0.2	- -	- -	0.3	074	- -	- -	0.2	258
5581	Kedges Strait buoy "4"	12d	38 03.45	76 01.93	+0 51	+1 28	+1 27	+1 04	0.9	0.6	- -	- -	0.8	091	- -	- -	0.7	276
5586	Manokin R. Ent., 1.1 n.mi. E of Drum Pt.	20d	38 05.82	75 53.48	+2 23	+2 55	+3 12	+2 39	0.4	0.3	- -	- -	0.4	008	- -	- -	0.3	197
5591	Deal Is., 0.6 n.mi. W. of, at Bouy "14"	14d	38 08.45	75 58.33	+3 23	+3 52	+3 54	+3 10	0.9	0.5	- -	- -	0.7	000	- -	- -	0.6	181
	...do	41d	38 08.45	75 58.33	+2 56	+3 00	+4 04	+3 36	0.7	0.3	- -	- -	0.6	355	- -	- -	0.4	175
5596	Frog Point, 1.6 miles south of		38 12.6	75 57.3	+3 57	+3 55	+4 10	+4 02	1.2	0.8	- -	- -	1.0	048	- -	- -	1.1	240
	Wicomico River																	
5601	Long Point and Nanticoke Point, between.	9d	38 12.80	75 54.00	+3 29	+3 32	+3 36	+3 43	0.6	0.6	- -	- -	0.5	063	- -	- -	0.7	263
5606	Victor Point, 0.8 mile southwest of..		38 14.3	75 51.8	+3 48	+3 49	+4 18	+4 05	0.7	0.7	- -	- -	0.6	034	- -	- -	0.9	242
5611	Whitehaven		38 15.9	75 47.5	+3 34	+4 40	+4 31	+3 32	1.4	0.9	- -	- -	1.1	089	- -	- -	1.1	284
5616	Whitehaven, 2.5 miles above	4	38 17.8	75 45.5	+3 38	+4 08	+4 14	+3 26	1.2	0.9	- -	- -	1.0	006	- -	- -	1.1	188
5621	Salisbury, 2 miles below	4	38 20.4	75 38.3	+4 01	+4 26	+4 32	+3 59	0.7	0.6	- -	- -	0.6	085	- -	- -	0.8	258
5626	Sandy Point, Nanticoke River		38 14.8	75 55.7	+3 52	+4 31	+4 50	+4 10	1.5	0.9	- -	- -	1.2	000	- -	- -	1.1	182
5631	Roaring Point, WSW of Nanticoke River	18d	38 15.80	75 55.40	+3 55	+3 56	+4 46	+3 41	1.1	0.7	- -	- -	0.9	356	- -	- -	0.9	181
	...do	37d	38 15.80	75 55.40	+3 43	+3 54	+5 14	+3 43	0.8	0.4	- -	- -	0.6	350	- -	- -	0.5	150
5636	Chapter Point, Nanticoke River		38 22.6	75 52.0	+5 15	+4 38	+5 21	+5 49	1.8	1.0	- -	- -	1.5	014	- -	- -	1.2	204
5641	Fishing Bay Entrance, at Buoy "2"	15d	38 13.48	75 59.37	+3 52	+4 55	+4 42	+4 52	0.7	0.2	0.1	050	0.5	311	0.1	202	0.3	139
5646	Hooper Strait, at Buoy "4"	14d	38 13.05	76 03.83	+0 56	+1 27	+1 56	+1 14	1.0	0.6	- -	- -	0.8	097	- -	- -	0.7	287
5651	Hooper Strait (west), at Buoy "2"	15d	38 13.25	76 06.20	+2 05	+2 28	+2 33	+1 40	0.7	0.4	- -	- -	0.6	035	0.2	304	0.6	233
5656	Honga River Entarance, at Buoy "1A"	26d	38 14.80	76 07.00	+2 57	+3 01	+3 57	+3 10	0.6	0.3	- -	- -	0.5	331	0.1	078	0.4	152
	GREAT WICOMICO RIVER																	
5661	Sandy Point, east of		37 49.30	76 18.00	+1 03	+1 20	+0 54	+0 56	0.4	0.2	- -	- -	0.3	320	- -	- -	0.3	140
	POTOMAC RIVER																	
5666	Point Lookout, 5.2 n.mi. SW of	13d	37 58.12	76 23.50	+2 39	+2 16	+2 18	+1 23	0.1	0.1	- -	- -	0.1	294	- -	- -	0.1	113
5671	Point Lookout, 3.1 n.mi. SW of	15d	37 59.87	76 21.75	+3 39	+4 02	+4 00	+3 26	0.4	0.3	- -	- -	0.3	295	- -	- -	0.4	116
	...do	34d	37 59.87	76 21.75	+2 49	+2 59	+3 30	+2 47	0.3	0.2	- -	- -	0.2	303	0.1	214	0.2	126
5676	Point Lookout, 1.8 n.mi. SW of	14d	38 00.80	76 20.62	+3 06	+3 40	+4 28	+3 38	0.6	0.3	0.1	216	0.5	297	- -	- -	0.4	122
	...do	47d	38 00.80	76 20.62	+2 13	+3 10	+3 56	+3 20	0.4	0.1	- -	- -	0.3	309	- -	- -	0.1	102
5681	Point Lookout, 1.0 n.mi. south of	15d	38 01.25	76 19.45	+2 30	+3 27	+3 54	+2 55	0.9	0.4	0.2	211	0.7	270	0.1	197	0.5	117
	...do	43d	38 01.25	76 19.45	+2 05	+3 10	+4 38	+3 11	0.7	0.2	- -	- -	0.6	271	- -	- -	0.3	086
	Cornfield Point																	
5686	1 mile south of		38 02	76 21	Current irregular						0.0	- -	0.5	310	0.0	- -	0.5	130
5691	midchannel		38 01.1	76 21.3	+4 38	+4 55	+4 29	+4 31	0.6	0.5	- -	- -	0.5	280	- -	- -	0.6	110
5696	3.8 miles south of		37 59.4	76 21.5	+4 23	+4 40	+4 14	+4 16	0.9	0.5	- -	- -	0.7	315	- -	- -	0.6	100
5701	Fort Point, St. Marys River		38 07.8	76 26.9	Current weak and variable													
5706	Yeocomico River entrance		38 02.1	76 31.2	Current weak and variable													
	Piney Point																	
5711	0.2 mile south of		38 07.8	76 32.0	+3 38	+3 55	+3 29	+3 31	1.6	0.5	- -	- -	1.3	280	- -	- -	0.6	145
5716	midchannel		38 06.9	76 32.5	+4 26	+4 35	+4 12	+4 22	0.5	0.5	- -	- -	0.4	290	- -	- -	0.6	150

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	POTOMAC RIVER Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64													
	Piney Point																	
5721	2.2 miles south of		38 05.9	76 33.1	+3 38	+3 55	+3 29	+3 31	0.6	0.4	- -	- -	0.5	280	- -	- -	0.5	130
5726	Lower Machodoc Creek entrance		38 08.7	76 39.3	Current weak and variable													
5731	White Point, Nomini Creek entrance		38 08.1	76 43.3	+4 13	+4 30	+4 04	+4 06	1.5	1.0	- -	- -	1.2	155	- -	- -	1.2	335
5736	Breton Bay entrance		38 14.5	76 41.7	+2 58	+3 15	+2 49	+2 51	0.7	0.3	- -	- -	0.6	030	- -	- -	0.4	200
5741	St. Clements Bay entrance		38 14.9	76 43.7	Current weak and variable													
5746	St. Clements I., 1.8 miles southeast of		38 11.7	76 42.5	+5 23	+5 40	+5 14	+5 16	0.5	0.7	- -	- -	0.4	250	- -	- -	0.9	085
5751	St. Clements I., 1.1 miles southwest of		38 11.57	76 45.67	+5 09	+5 49	+5 13	+5 05	0.7	0.6	- -	- -	0.6	281	- -	- -	0.8	099
5756	Rock Point, Wicomico River entrance		38 16.4	76 49.3	+3 47	+4 36	+4 22	+3 53	0.6	0.5	- -	- -	0.5	019	- -	- -	0.6	174
					on BALTIMORE HARBOR APPROACH, p.70													
5761	Swan Point		38 16.4	76 56.7	-1 54	-2 04	-2 32	-2 09	0.4	1.0	- -	- -	0.3	350	- -	- -	0.8	140
5766	Dahlgren Harbor Channel		38 18.90	77 01.93	Current weak and variable													
5771	Upper Machodoc Creek entrance		38 19	77 02	Current irregular						0.0	- -	0.3	270	0.0	- -	0.3	090
5776	Persimmon Point		38 22.1	76 59.4	-1 09	-1 19	-1 47	-1 24	1.5	1.8	- -	- -	1.2	325	- -	- -	1.4	175
5781	Potomac River Bridge, 0.4 mile south of		38 21.38	76 59.20	-1 25	-1 28	-1 38	-1 17	1.1	1.8	- -	- -	0.9	000	- -	- -	1.4	165
5786	Chapel Point, Port Tobacco River		38 27.9	77 02.2	Current weak and variable													
5791	Maryland Point		38 20.8	77 11.8	-1 04	-1 14	-1 42	-1 19	1.4	1.8	- -	- -	1.1	270	- -	- -	1.4	080
5796	Quantico		38 31.3	77 16.6	-0 54	-1 04	-1 32	-1 09	0.9	1.1	- -	- -	0.7	020	- -	- -	0.9	200
5801	Quantico Creek entrance		38 31.7	77 17.3	-1 19	-1 29	-1 57	-1 34	0.6	0.6	- -	- -	0.5	305	- -	- -	0.5	115
5806	Freestone Point, 2.3 miles east of		38 35.78	77 11.88	-0 03	-0 01	-0 28	-0 06	0.9	0.9	- -	- -	0.7	030	- -	- -	0.7	229
5811	Hallowing Point		38 38.70	77 07.65	+0 12	-0 05	-0 24	-0 15	1.4	1.4	- -	- -	1.1	345	- -	- -	1.1	149
5816	Jones Point, Alexandria		38 47.62	77 02.23	+0 36	+0 01	+0 09	+0 07	1.2	1.1	- -	- -	1.0	352	- -	- -	0.9	171
5821	Hains Point		38 51.08	77 01.32	+0 20	+0 31	+0 04	-0 18	0.8	0.4	- -	- -	0.6	359	- -	- -	0.3	176
5826	Anacostia River entrance		38 51.8	77 00.6	Current weak and variable													
5831	South Capitol Street Bridge		38 52.07	77 00.38	Current weak and variable													
5836	Washington Channel, Washington, D.C.		38 51.8	77 01.2	Current weak and variable													
5841	Virginia Channel, Washington, D.C. <13>.		38 52	77 02	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	0.6	145
	PATUXENT RIVER																	
5846	Hog Point, 0.6 n.mi. north of	13d	38 19.08	76 24.07	-4 45	-5 29	-5 59	-6 00	0.5	0.6	- -	- -	0.4	258	0.1	358	0.5	070
	...do	41d	38 19.08	76 24.07	-6 24	-5 38	-5 36	-6 38	0.5	0.3	- -	- -	0.4	263	- -	- -	0.2	061
5851	Drum Point, 0.3 mile SSE of		38 18.93	76 25.15	-5 19	-5 20	-5 25	-5 16	0.5	0.5	0.0	- -	0.4	245	0.0	- -	0.4	065
5856	Sandy Point, 0.5 mile south of		38 18.50	76 27.30	-5 08	-5 49	-5 53	-4 55	0.5	0.6	0.0	- -	0.4	300	0.0	- -	0.5	125
5861	Point Patience, 0.1 mile southwest of	15	38 19.70	76 29.20	-5 07	-6 12	-6 46	-6 01	0.6	1.0	0.0	- -	0.5	315	0.0	- -	0.8	145
5866	Broomes Island, 0.4 mile south of		38 23.70	76 33.25	-5 01	-5 16	-5 02	-5 02	0.5	0.6	0.0	- -	0.4	290	0.0	- -	0.5	110
5871	Sheridan Point, 0.1 mile southwest of		38 27.97	76 38.88	-4 33	-4 54	-4 38	-4 16	0.8	0.8	0.0	- -	0.6	320	0.0	- -	0.6	135
5876	Benedict, highway bridge		38 30.70	76 40.33	-4 45	-4 38	-4 09	-4 35	1.0	0.6	0.0	- -	0.8	025	0.0	- -	0.5	190
5881	Lyons Creek Wharf		38 44.8	76 41.1	-3 14	-3 24	-3 52	-3 29	1.4	1.1	0.0	- -	1.1	315	0.0	- -	0.9	140
	LITTLE CHOPTANK RIVER																	
5886	Hills Point, 1.0 mile south of		38 33.0	76 18.7	Current weak and variable													
5891	Ragged Point, 1.5 miles east of		38 31.80	76 14.65	-4 53	-5 15	-4 29	-4 57	0.5	0.2	0.0	- -	0.4	045	0.0	- -	0.2	235

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	LITTLE CHOPTANK RIVER Time meridian, 75°W				on BALTIMORE HARBOR APPROACH, p.70									
	CHOPTANK RIVER													
5896	Cook Point, 1.4 n.mi. NNW of	15d	38 38.83	76 18.40	-3 52	-4 06	-4 06	-4 24	0.8	0.7	- - - -	0.6 049	- - - -	0.5 241
	...do	45d	38 38.83	76 18.40	-4 09	-4 15	-4 03	-4 12	0.6	0.6	0.1 145	0.5 068	- - - -	0.5 232
5901	Holland Point, 2.0 n.mi. SSW of	14d	38 40.43	76 15.45	-3 54	-4 21	-3 26	-4 00	0.3	0.2	- - - -	0.2 089	- - - -	0.2 262
5906	Chlora Point, 0.5 n.mi. SSW of	17d	38 37.70	76 09.10	-3 45	-3 32	-3 22	-3 58	0.6	0.5	- - - -	0.5 139	- - - -	0.4 332
	...do	24d	38 37.70	76 09.10	-3 48	-3 33	-3 13	-3 42	0.4	0.4	- - - -	0.4 143	- - - -	0.3 323
5911	Martin Point, 0.6 n.mi. west of	18d	38 37.63	76 08.15	-3 18	-3 42	-3 22	-3 34	0.3	0.2	- - - -	0.2 155	- - - -	0.2 341
5916	Howell Point, 0.5 n.mi. south of	7d	38 36.23	76 06.87	-3 17	-4 04	-3 52	-3 42	0.4	0.5	- - - -	0.3 122	- - - -	0.4 274
5921	Cambridge hwy. bridge, W. of Swing Span.	18d	38 34.78	76 03.67	-2 48	-3 05	-1 07	-2 13	0.6	0.3	- - - -	0.4 132	- - - -	0.3 316
5926	Off Jamaica Point		38 36.58	75 58.97	-2 13	-2 32	-2 44	-2 26	0.6	0.8	0.0 - -	0.5 000	0.0 - -	0.6 205
5931	Poplar Point, south of		38 40.52	75 57.98	-1 52	-2 05	-1 56	-2 15	1.0	1.0	0.0 - -	0.8 305	0.0 - -	0.8 100
5936	Dover Bridge		38 45.40	75 59.92	-1 19	-1 50	-1 25	-1 47	1.1	1.0	0.0 - -	0.9 050	0.0 - -	0.8 235
5941	Oxford, Tred Avon River		38 41.72	76 10.67	- - -	-4 05	- - -	-4 03	0.4	0.2	0.0 - -	0.3 040	0.0 - -	0.2 225
5946	Easton Pt., 0.5 mi. below, Tred Avon R.		38 45.8	76 06.2	Current weak and variable									
5951	Mulberry Pt., 0.6 mi. S of, Broad Cr.		38 44.33	76 14.95	- - -	-4 10	- - -	-4 18	0.4	0.2	0.0 - -	0.3 350	0.0 - -	0.2 170
5956	Bald Eagle Pt., east of, Harris Cr.		38 43.75	76 18.30	-4 07	-4 27	-4 07	-4 14	0.5	0.5	0.0 - -	0.4 010	0.0 - -	0.4 175
	EASTERN BAY													
5961	Poplar Island, east of south end		38 44.9	76 21.2	-2 20	-2 20	-2 20	-2 20	1.2	0.8	0.0 - -	1.0 000	0.0 - -	0.6 170
5966	Kent Point, 1.4 n.mi. east of	15d	38 50.33	76 20.25	-3 04	-3 18	-3 49	-3 12	0.5	0.4	- - - -	0.4 043	- - - -	0.3 233
5971	Long Point, 1 mile southeast of		38 50.6	76 19.6	-3 40	-3 40	-3 40	-3 40	0.6	0.5	0.0 - -	0.5 040	0.0 - -	0.4 235
5976	Turkey Point, 1.3 miles WSW of		38 53.68	76 19.55	Current weak and variable									
5981	Parson Island, 1.4 miles west of		38 54.83	76 16.77	Current weak and variable									
5986	Parson Island, 0.7 mile NNE of		38 55.48	76 14.33	- - -	-2 45	- - -	-2 50	0.2	0.2	0.0 - -	0.2 305	0.0 - -	0.2 150
5991	Tilghman Point, 1 mile north of		38 52.78	76 15.18	- - -	-3 15	- - -	-3 55	0.4	0.4	0.0 - -	0.3 060	0.0 - -	0.3 265
5996	Wye River, west of Bruffs Island	9	38 51.28	76 11.88	-2 33	-3 18	-3 17	-3 00	0.8	0.9	0.0 - -	0.6 030	0.0 - -	0.7 190
6001	Deepwater Point, Miles River		38 48.33	76 12.55	-3 48	-3 52	-3 43	-4 14	0.6	0.6	0.0 - -	0.5 215	0.0 - -	0.5 025
6006	Long Point, 0.8 mi. east of, Miles R.		38 46.43	76 09.32	- - -	-3 24	- - -	-3 45	0.4	0.2	0.0 - -	0.3 055	0.0 - -	0.2 245
	WEST and SOUTH RIVERS													
6011	Cheston Point, south of, West River		38 51.33	76 31.43	Current weak and variable									
6016	South River entrance		38 54.77	76 29.43	Current weak and variable									
	SEVERN and MAGOTHY RIVERS													
6021	Greenbury Point, 1.8 miles east of	8	38 58.40	76 25.00	-0 57	-1 05	-0 51	-0 47	0.8	0.8	0.0 - -	0.6 070	0.0 - -	0.6 245
6026	Annapolis		38 58.95	76 28.50	- - -	-3 35	- - -	-2 26	0.5	0.4	0.0 - -	0.4 320	0.0 - -	0.3 110
6031	Brewer Point, Severn River		39 01.83	76 31.73	- - -	-1 22	- - -	-1 50	0.4	0.4	0.0 - -	0.3 275	0.0 - -	0.3 155
6036	Mountain Point, Magothy River entrance		39 03.47	76 26.23	-2 20	-2 00	-1 29	-2 04	0.8	0.4	0.0 - -	0.6 315	0.0 - -	0.3 125
	CHESTER RIVER													
6041	Love Point, 1.6 n.mi. east of	16d	39 02.05	76 16.07	-1 42	-1 15	-0 47	-1 15	0.6	0.4	0.1 278	0.4 202	0.1 261	0.4 341
6046	Kent Island Narrows (highway bridge)	4	38 58.23	76 14.83	-2 07	-2 25	-2 11	-2 56	1.2	1.1	0.0 - -	1.0 005	0.0 - -	0.9 190
6051	Hail Point, 0.7 n.mi.east of	16d	39 00.63	76 10.95	-0 51	-1 08	-1 12	-0 37	0.5	0.6	- - - -	0.4 002	- - - -	0.5 168

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.
	CHESTER RIVER Time meridian, 75°W				on BALTIMORE HARBOR APPROACH, p.70											
6056	Deep Point		39 06.38	76 07.23	-0 31	-0 33	-0 32	-0 18	0.6	0.9	0.0	- -	0.5	065	0.0	- -	0.7	260
6061	Chestertown		39 12.43	76 03.67	-0 21	+0 05	-0 02	-0 17	0.8	0.6	0.0	- -	0.6	025	0.0	- -	0.5	220
	PATAPSCO RIVER															
6066	North Point, Brewerton Channel	15d	39 10.70	76 26.65	Current weak and variable											
6071	Brewerton Angle		39 12.08	76 30.78	Current weak and variable											
6076	Fort McHenry Angle		39 15.45	76 34.53	Current weak and variable											
6081	Bear Creek entrance		39 13.8	76 29.9	Current weak and variable											
6086	Curtis Creek entrance		39 13.1	76 34.6	Current weak and variable											
6091	Fort McHenry, NW Harbor entrance		39 15.8	76 34.5	Current weak and variable											
6096	Middle Branch entrance		39 15.4	76 37.0	Current weak and variable											
	BACK, GUNPOWDER and BUSH RIVERS															
6101	Lynch Point, Back River		39 15.0	76 26.3	0 00	-0 10	0 00	-0 10	0.7	0.5	0.0	- -	0.6	310	0.0	- -	0.4	130
6106	Gunpowder River entrance		39 18.7	76 18.5	-0 24	-0 41	+0 25	+0 05	0.5	0.4	0.0	- -	0.4	040	0.0	- -	0.3	205
6111	Bush River, 0.4 mi. SW of Bush Point		39 21.4	76 15.4	+0 07	-0 24	+0 21	+0 20	0.8	0.6	0.0	- -	0.6	325	0.0	- -	0.5	165
	SASSAFRAS RIVER															
6116	Grove Point		39 22.7	76 02.6	+0 46	+0 46	+0 51	+0 44	0.5	0.4	0.0	- -	0.4	095	0.0	- -	0.3	288
6121	Ordinary Point, 0.4 mile west of		39 22.45	75 59.25	+0 50	+0 37	+1 17	+0 58	0.6	0.5	0.0	- -	0.5	165	0.0	- -	0.4	345
6126	Georgetown		39 21.67	75 53.17	+1 00	+0 25	+0 56	+1 25	0.4	0.5	0.0	- -	0.3	090	0.0	- -	0.4	200
	ELK RIVER															
6131	Arnold Point, 0.4 mile west of		39 27.83	75 58.45	+1 39	+1 45	+1 24	+1 32	1.0	1.0	0.0	- -	0.8	040	0.0	- -	0.8	215
6136	Old Town Point Wharf, northwest of	17d	39 30.23	75 55.12	+2 00	+1 53	+1 49	+1 45	1.3	1.6	- -	- -	1.1	054	- -	- -	1.3	242
	...do	29d	39 30.23	75 55.12	+2 07	+2 04	+1 47	+1 45	1.2	1.4	- -	- -	0.9	055	- -	- -	1.1	237
6141	Hendersons Point		39 33.2	75 51.6	+2 05	+2 05	+2 05	+2 05	0.6	0.9	- -	- -	0.5	030	- -	- -	0.7	210
	CHESAPEAKE and DELAWARE CANAL				on CHESAPEAKE AND DELAWARE CANAL, p.76											
6146	Back Creek, 0.3 n.mi. W of Sandy Pt	14d	39 31.67	75 51.97	-0 08	-0 21	-0 02	-0 09	0.6	0.7	- -	- -	1.2	057	- -	- -	1.4	244
	...do	31d	39 31.67	75 51.97	-0 06	-0 34	+0 08	-0 07	0.6	0.6	- -	- -	1.2	052	- -	- -	1.2	240
6151	C&D CANAL, Chesapeake City bridge		39 31.7	75 48.7	Daily predictions						0.0	- -	2.0	110	0.0	- -	1.9	290
6156	Chesapeake City Bridge, 0.45 n.mi. E of	26d	39 31.67	75 48.43	-0 29	-0 20	+0 16	-0 15	1.0	0.8	- -	- -	2.0	092	- -	- -	1.4	273
	...do	37d	39 31.67	75 48.43	-0 33	-0 25	+0 19	-0 22	0.7	0.5	- -	- -	1.5	083	- -	- -	0.9	275
6161	Conrail Bridge, east of	17d	39 32.55	75 42.15	-0 37	-0 34	+0 10	-0 16	1.0	0.7	- -	- -	1.9	099	- -	- -	1.3	278
	...do	34d	39 32.55	75 42.15	-0 42	-0 32	+0 07	-0 39	0.7	0.5	- -	- -	1.4	096	- -	- -	1.0	281
6166	St. George Bridge, 0.1 n.mi. ENE of	18d	39 33.17	75 39.00	-0 59	-1 17	-0 40	-1 16	0.9	0.7	- -	- -	1.7	064	- -	- -	1.3	247
6171	Reedy Point Radio Tower, south of	19d	39 33.62	75 34.20	-1 07	-1 04	-0 02	-0 24	1.0	0.7	- -	- -	1.9	078	- -	- -	1.3	263
	VIRGINIA, outer coast				on CHESAPEAKE BAY ENTRANCE, p.64											
6176	Cape Henry Light, 0.7 mile east of		36 55.70	75 59.60	-0 01	+0 16	-0 27	+0 01	1.2	1.5	- -	- -	1.0	320	- -	- -	1.9	105
6181	Virginia Beach, north end		36 52.20	75 58.20	-1 28	-0 04	+0 43	-0 35	1.4	0.6	- -	- -	1.1	355	- -	- -	0.8	165

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NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	VIRGINIA, outer coast Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64													
6186	Virginia Beach, south end		36 33.00	75 52.10	-0 48	+0 19	+0 19	-0 02	0.6	0.3	- -	- -	0.5	350	- -	- -	0.4	170
	PAMLICO SOUND				on CHARLESTON HARBOR, p.82													
	Oregon Inlet																	
6191	Bodie Island-Pea Island, between	6	35 46.6	75 32.1	+2 05	+1 46	+2 06	+1 40	1.1	0.5	0.0	- -	2.1	202	0.1	113	1.2	028
	...do	12	35 46.6	75 32.1	+2 16	+2 02	+2 05	+1 36	1.0	0.5	0.0	- -	2.0	204	0.1	113	1.2	036
6196	Coast Guard Tower, southwest of	6	35 45.7	75 31.9	+2 31	+1 56	+1 56	+2 06	0.7	0.6	0.0	- -	1.4	205	0.0	- -	1.5	028
	...do	12	35 45.7	75 31.9	+2 28	+1 59	+2 00	+1 21	0.7	0.6	0.0	- -	1.3	212	0.0	- -	1.4	033
6201	Herbert C. Bonner Bridge, WSW of	6	35 46.2	75 32.8	+2 59	+2 21	+1 33	+1 34	0.5	0.8	0.0	- -	1.0	280	0.0	- -	1.8	087
6206	Hatteras Inlet		35 12	75 45	+2 09	+2 08	+2 21	+1 26	1.1	0.9	0.0	- -	2.1	307	0.0	- -	2.0	148
6211	Diamond Shoal Light, 3.9 miles SSW of		35 09	75 18	See table 5.													
	Ocracoke Inlet																	
6216	channel entrance		35 03.92	76 01.13	+2 15	+1 50	+1 46	+1 28	0.9	1.0	0.0	- -	1.7	000	0.0	- -	2.4	145
6221	Teaches Hole Channel	10	35 04.75	76 00.28	+2 16	+1 53	+1 45	+1 35	0.6	0.7	0.0	- -	1.1	050	0.0	- -	1.6	195
6226	Blair Channel	10	35 04.88	76 02.03	+2 19	+1 59	+1 51	+1 51	0.5	0.7	0.0	- -	1.0	355	0.0	- -	1.7	140
6231	Wallace Channel	9	35 04.78	76 03.12	+2 18	+2 23	+2 06	+2 01	0.8	0.8	0.0	- -	1.6	305	0.0	- -	1.8	140
6236	Sheep Island Slue		35 04	76 06	+2 00	+2 44	+1 38	+1 42	0.1	0.1	0.0	- -	0.2	310	0.0	- -	0.3	095
6241	Ocracoke Inlet, 3.5 miles SSE of		35 01	76 00	See table 5.													
	NORTH CAROLINA COAST																	
	Beaufort Inlet																	
6246	Shackleford Banks, 0.8 mile S of	6	34 39.98	76 39.33	+0 46	+0 42	+0 33	+0 19	0.7	0.6	0.0	- -	1.4	314	0.0	- -	1.5	145
6251	Approach		34 40.3	76 40.2	+1 30	+0 45	+0 40	+0 45	0.2	0.6	0.0	- -	0.3	358	0.0	- -	1.4	161
6256	Fort Macon, 0.6 mile SE of		34 41.15	76 40.10	+1 09	+1 13	+0 54	+0 26	0.6	0.7	0.0	- -	1.2	332	0.0	- -	1.7	154
6261	Fort Macon, 0.2 mile NE of	10	34 41.98	76 40.52	+0 39	+0 46	+0 39	+0 09	1.0	0.8	0.1	232	2.0	307	0.0	- -	1.8	151
	...do	20	34 41.98	76 40.52	+0 39	+0 44	+0 39	+0 27	1.0	0.7	0.2	242	2.0	320	0.1	232	1.7	153
6266	Tombstone Point, 0.1 mile E of	15	34 42.23	76 41.17	+0 40	+0 49	+0 37	+0 15	0.8	0.7	0.1	222	1.6	305	0.1	220	1.7	128
6271	Turning Basin	6	34 42.78	76 41.65	+0 38	+1 00	+0 53	+0 20	0.7	0.4	0.0	- -	1.3	327	0.1	237	1.0	144
	...do	15	34 42.78	76 41.65	+0 36	+1 00	+1 02	+0 20	0.6	0.4	0.4	048	1.2	334	0.1	237	1.0	138
6276	Sugarloaf Island, 0.2 mile S of	6	34 42.75	76 42.83	+1 25	+1 05	+1 25	+1 02	0.6	0.7	0.0	- -	1.1	266	0.0	- -	1.6	094
6281	Morehead City, S of	6	34 43.00	76 43.97	+1 39	+1 13	+1 32	+1 30	0.7	0.6	0.0	- -	1.4	293	0.0	- -	1.4	110
6286	Morehead City, RR. bridge, N of	6	34 43.37	76 41.63	+0 11	+0 27	+0 12	-1 15	0.5	0.4	0.2	127	1.0	054	0.1	122	1.0	185
6291	Newport Marshes, SE of	6	34 43.88	76 41.00	+0 24	+0 28	+0 21	-0 20	0.7	0.5	0.1	130	1.4	044	0.0	- -	1.2	215
	...do	15	34 43.88	76 41.00	+0 20	+0 41	+0 24	-0 20	0.7	0.5	0.0	- -	1.3	044	0.0	- -	1.2	226
6296	Newport Marshes, E of	6	34 44.27	76 40.83	-0 26	-0 23	-0 34	-0 21	0.5	0.4	0.0	- -	1.0	040	0.0	- -	1.0	224
6301	Radio Island, E of	6	34 42.70	76 40.78	+0 22	+0 21	+0 23	+0 04	0.6	0.5	0.0	- -	1.2	022	0.0	- -	1.2	202
6306	Beaufort, off docks		34 43	76 40	Current irregular						0.0	- -	0.5	310	0.0	- -	0.5	130
6311	Bird Shoal, SE of	6	34 42.03	76 39.23	+1 07	+1 00	+1 13	+0 04	0.4	0.4	0.0	- -	0.8	126	0.1	217	0.8	304
6316	Shackleford Point, NE of	6	34 41.53	76 39.13	+0 59	+0 54	+1 13	+0 34	0.7	0.5	0.1	218	1.3	135	0.0	- -	1.1	305
6321	Carrot Island	6	34 42.13	76 37.05	+1 16	+1 00	+1 18	+1 37	0.5	0.6	0.1	359	0.9	080	0.0	- -	1.3	262
6326	Middle Marshes, S of	6	34 40.70	76 36.83	+0 26	+0 30	+1 06	+0 06	0.7	0.5	0.1	197	1.4	123	0.1	181	1.1	275
6331	Cape Lookout Shoals Ltd. Whistle Buoy 14		34 18	76 24	See table 5.													
	CAPE FEAR RIVER																	
6336	Bald Head		33 52.43	78 00.45	+0 42	-0 12	+0 12	+0 47	1.2	1.3	0.0	- -	2.2	034	0.0	- -	2.9	190

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NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CAPE FEAR RIVER Time meridian, 75°W				on CHARLESTON HARBOR, p.82													
6341	Intracoastal Waterway, Southport	6	33 55.07	78 02.53	-0 06	+0 54	+0 08	-1 27	0.4	0.4	0.0	- -	0.8	280	0.0	- -	0.8	095
6346	Southport	6	33 54.87	78 00.70	+1 16	+0 31	+0 57	+1 03	0.8	1.2	0.0	- -	1.6	059	0.0	- -	2.6	225
6351	Southport	16	33 55.03	78 00.53	+1 01	+0 38	+1 06	+1 03	0.8	1.0	0.0	- -	1.6	062	0.1	152	2.4	244
	...do	26	33 55.03	78 00.53	+0 49	+0 49	+1 06	+1 01	0.9	0.9	0.0	- -	1.7	082	0.1	161	2.1	247
6356	Sunny Point	6	33 59.18	77 57.28	+1 37	+0 22	+0 48	+1 12	0.5	0.5	0.0	- -	0.9	003	0.0	- -	1.2	176
	...do	16	33 59.18	77 57.28	+1 34	+1 15	+1 14	+1 43	0.5	0.5	0.0	- -	0.9	347	0.0	- -	1.1	160
	...do	26	33 59.18	77 57.28	+1 24	+1 15	+1 43	+1 40	0.5	0.4	0.0	- -	1.0	350	0.0	- -	1.0	167
6361	Horseshoe Shoal	6	33 58.17	77 56.87	+1 43	+1 00	+1 27	+1 40	0.8	0.8	0.1	110	1.5	019	0.1	101	1.8	198
	...do	16	33 58.17	77 56.87	+1 31	+1 01	+1 35	+1 39	0.8	0.8	0.1	111	1.5	025	0.0	- -	1.8	199
	...do	26	33 58.17	77 56.87	+1 21	+1 07	+1 35	+1 18	0.7	0.6	0.0	- -	1.3	012	0.0	- -	1.4	193
6366	Reaves Point, 0.3 mile east of	6	33 59.92	77 56.97	+0 36	-0 31	+1 05	-1 01	0.2	0.1	0.0	- -	0.3	351	0.0	- -	0.3	181
	...do	16	33 59.92	77 56.97	+0 51	+1 07	+1 42	+0 01	0.4	0.2	0.0	- -	0.7	332	0.1	251	0.4	159
	...do	26	33 59.92	77 56.97	+0 18	+1 10	+2 47	+1 25	0.5	0.1	0.0	- -	1.0	331	0.0	256	0.2	160
6371	Reaves Point Channel	6	33 59.08	77 55.85	+1 54	+0 57	+1 44	+2 05	0.7	0.7	0.0	- -	1.3	009	0.0	- -	1.6	195
	...do	16	33 59.08	77 55.85	+1 31	+0 34	+1 38	+2 07	0.8	0.7	0.0	- -	1.5	013	0.0	- -	1.7	192
	...do	26	33 59.08	77 55.85	+1 17	+1 32	+1 44	+1 40	0.6	0.5	0.0	- -	1.1	017	0.0	- -	1.1	194
6376	Reaves Point, 0.8 mile northeast of	6	34 00.43	77 56.47	+1 54	+1 13	+1 42	+2 13	0.7	0.6	0.0	- -	1.4	020	0.0	- -	1.5	197
	...do	16	34 00.43	77 56.47	+1 41	+1 08	+1 56	+2 16	0.7	0.6	0.0	- -	1.4	021	0.1	099	1.4	196
	...do	26	34 00.43	77 56.47	+1 36	+0 59	+2 04	+1 58	0.6	0.4	0.0	- -	1.2	017	0.0	103	1.0	167
6381	Reaves Point, 0.4 mile north of	6	34 00.37	77 57.15	+2 08	+1 12	+1 47	+2 07	0.4	0.4	0.0	- -	0.8	027	0.0	- -	0.9	198
	...do	16	34 00.37	77 57.15	+1 48	+2 14	+2 00	+1 55	0.5	0.3	0.0	- -	0.9	011	0.0	- -	0.7	191
	...do	26	34 00.37	77 57.15	+0 52	+1 30	+2 19	+1 14	0.5	0.4	0.0	- -	0.9	050	0.1	117	0.8	183
6386	Snows Cut, Intracoastal Waterway	6	34 03.38	77 53.93	+5 54	+4 39	+7 01	+5 19	0.6	0.4	0.0	- -	1.2	080	0.0	350	1.0	264
6391	Myrtle Sound, Intracoastal Waterway	6	34 04.68	77 53.40	+6 11	+5 24	+7 01	+5 33	0.6	0.5	0.0	- -	1.2	017	0.0	285	1.1	195
6396	Upper Midnight channel		34 01.72	77 56.43	+1 33	+0 58	+1 50	+1 20	0.9	0.9	0.0	- -	1.7	028	0.0	- -	2.0	174
6401	Doctor Point, 0.6 mile NNW of	6	34 04.72	77 55.95	+2 09	+1 36	+1 49	+2 19	0.8	0.9	0.0	- -	1.6	015	0.1	097	2.0	192
	...do	16	34 04.72	77 55.95	+1 57	+1 29	+2 02	+2 10	0.8	0.7	0.0	- -	1.5	006	0.0	- -	1.6	177
	...do	26	34 04.72	77 55.95	+1 39	+1 45	+2 07	+2 10	0.8	0.6	0.1	099	1.5	327	0.0	- -	1.4	177
6406	Campbell Island, east side	6	34 07.22	77 56.18	+2 23	+1 59	+2 05	+2 27	0.8	0.6	0.0	- -	1.5	020	0.0	- -	1.4	193
	...do	16	34 07.22	77 56.18	+1 55	+1 41	+2 16	+2 20	0.7	0.6	0.0	- -	1.4	003	0.0	- -	1.4	182
	...do	26	34 07.22	77 56.18	+1 48	+2 00	+2 21	+2 22	0.6	0.4	0.0	- -	1.2	004	0.0	- -	1.0	185
6411	Dram Tree Point, 0.5 mile SSE of		34 11.53	77 57.45	+2 53	+3 01	+2 25	+3 19	0.7	0.6	0.0	- -	1.4	006	0.0	- -	1.3	181
	Brunswick River																	
6416	0.4 mile north of	6	34 10.87	78 57.95	+2 39	+1 06	+1 54	+1 10	0.4	0.5	0.0	- -	0.8	290	0.1	200	1.2	118
	...do	16	34 10.87	78 57.95	+2 31	+1 18	+1 56	+1 10	0.4	0.4	0.0	- -	0.8	301	0.0	- -	1.0	127
6421	1.8 miles north of mouth	6	34 12.33	77 58.47	+2 45	+2 00	+2 02	+2 40	0.3	0.4	0.0	- -	0.5	354	0.0	- -	0.8	170
6426	Wilmington	6	34 14.20	77 57.17	+3 19	+3 33	+2 51	+2 55	0.7	0.6	0.0	- -	1.4	337	0.0	- -	1.4	153
	...do	20	34 14.20	77 57.17	+3 07	+3 00	+2 40	+3 25	0.7	0.6	0.0	- -	1.3	341	0.0	- -	1.4	164
6431	Point Peter	6	34 14.53	77 57.50	+4 42	+4 45	+4 13	+4 55	0.3	0.3	0.0	- -	0.6	307	0.0	- -	0.7	124
6436	Turning Basin, Northeast River	6	34 14.85	77 57.23	+3 35	+3 39	+3 14	+3 40	0.3	0.3	0.0	- -	0.6	021	0.0	- -	0.7	207
	...do	20	34 14.85	77 57.23	+3 30	+3 44	+3 16	+3 40	0.4	0.3	0.0	- -	0.7	026	0.0	- -	0.7	200
	NORTH CAROLINA COAST																	
6441	Frying Pan Shoals, off Cape Fear		33 34	77 49	See table 5.													
6446	Frying Pan Shoals Light, 14.3 mi. NW of		33 28	77 34	See table 5.													

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	WINYAH BAY Time meridian, 75°W				on CHARLESTON HARBOR, p.82													
6451	Winyah Bay entrance		33 12.43	79 11.07	+1 14	+1 01	+1 08	+1 08	1.0	0.9	0.0	- -	1.9	320	0.0	- -	2.0	140
6456	Range D, off Mosquito Creek		33 14.65	79 12.35	+1 27	+1 23	+1 16	+1 30	1.1	1.0	0.0	- -	2.1	330	0.0	- -	2.2	130
6461	Frazier Point, south of		33 17.70	79 16.37	+1 19	+1 18	+2 23	+1 47	1.0	0.4	0.0	- -	1.8	320	0.0	- -	0.9	115
6466	Frazier Point, west of		33 18.58	79 17.20	+1 50	+1 45	+2 04	+1 29	0.8	0.9	0.0	- -	1.6	000	0.0	- -	2.0	170
6471	Rabbit Island, northwest of		33 20.37	79 16.88	+2 06	+2 12	+2 17	+2 13	1.1	0.8	0.0	- -	2.1	015	0.0	- -	1.8	215
6476	Sampit River entrance		33 21.08	79 16.82	+1 00	+0 46	+1 42	+0 41	0.6	0.6	0.0	- -	1.1	345	0.0	- -	1.3	135
6481	Georgetown, Sampit River		33 21.55	79 17.25	+1 27	+0 44	+0 59	+0 40	0.4	0.5	0.0	- -	0.8	275	0.0	- -	1.1	080
6486	Pee Dee River, swing bridge		33 22.23	79 15.83	+2 30	+2 39	+2 00	+2 31	0.4	0.4	0.0	- -	0.7	000	0.0	- -	0.9	210
6491	Lafayette swing bridge, Waccamaw River		33 22.12	79 15.12	+2 50	+2 30	+1 59	+2 19	0.4	0.5	0.0	- -	0.7	005	0.0	- -	1.2	200
6496	Butler Island, 0.3 mile south of		33 25.00	79 12.72	+3 03	+3 00	+2 14	+2 43	0.3	0.4	0.0	- -	0.6	030	0.0	- -	0.9	205
	SOUTH CAROLINA COAST																	
6501	North Santee River entrance	6	33 08.15	79 14.45	+0 27	-0 01	+0 06	-0 13	0.8	0.8	0.0	- -	1.5	010	0.0	- -	1.8	165
6506	South Santee River entrance	5	33 07.2	79 16.5	-0 13	+0 04	+0 30	+0 03	0.8	0.7	0.0	- -	1.5	045	0.0	- -	1.6	240
6511	Cape Romain		- - - -	- - - -	See table 5.													
6516	Capers Inlet		- - - -	- - - -	See table 5.													
6521	Charleston Entrance, 37 miles east of		32 42	79 06	See table 5.													
6526	Charleston Lighted Whistle Buoy 2C		32 41	79 43	See table 5.													
	CHARLESTON HARBOR																	
6531	North Jetty, 0.8 mile southeast of <36>		32 43.05	79 48.00	-0 39	-1 22	-1 06	-0 28	0.2	0.5	0.1	202	0.4	295	0.1	358	1.1	110
6536	Charleston Hbr. ent. (between jetties)		32 44.00	79 50.00	-0 34	-0 30	+0 08	-0 03	1.0	0.8	0.0	- -	1.8	320	0.0	- -	1.8	121
6541	South Jetty, break in		32 43.87	79 51.02	+0 05	-0 03	+0 09	+0 10	0.6	1.2	0.0	- -	1.2	002	0.0	- -	2.8	204
6546	CHARLESTON HARBOR (off Fort Sumter)		32 45.45	79 52.08	Daily predictions						0.0	- -	1.9	335	0.0	- -	2.3	120
6551	South Chan., 0.8 mi. ENE of Ft. Johnson		32 45.52	79 53.08	+0 10	-0 23	-0 09	+0 01	0.4	1.1	0.0	- -	0.8	275	0.0	- -	2.6	115
6556	South Chan., 0.4 mi. NW of Ft. Johnson		32 45.48	79 54.38	+0 37	+0 24	+0 19	+0 31	0.4	0.8	0 0	- -	0.7	282	0.0	- -	1.9	104
6561	Sullivans I., 0.7 mi. NE of Ft. Sumter		32 45.72	79 52.05	-0 16	+0 03	+0 04	-0 15	0.7	0.6	0.0	- -	1.4	342	0.0	- -	1.5	132
6566	Castle Pinckney, 0.4 mile south of		32 46.02	79 54.70	+0 07	+0 26	+0 17	+0 46	0.4	0.7	0.0	- -	0.8	304	0.0	- -	1.7	098
6571	Castle Pinckney, 0.6 mile southwest of		32 45.98	79 55.17	+0 48	+0 46	+0 27	+0 28	0.4	0.6	0.0	- -	0.7	318	0.0	- -	1.3	156
6576	Shutes Folly Island, 0.4 mile west of		32 46.58	79 55.25	+0 20	+0 25	+0 23	-0 04	0.4	1.0	0.0	- -	0.8	028	0.0	- -	2.2	164
6581	Customhouse Reach		32 46.95	79 55.20	+0 13	+0 03	+0 30	+0 03	0.5	0.8	0.0	- -	1.0	005	0.0	- -	1.8	153
6586	Town Creek Lower Reach		32 47.55	79 55.47	+0 01	-0 10	+0 05	-0 05	0.6	1.0	0.0	- -	1.1	335	0.0	- -	2.2	172
6591	Town Creek, 0.2 mile above bridge		32 48.32	79 55.90	+0 33	+0 20	+0 06	-0 09	0.4	1.1	0.0	- -	0.8	002	0.0	- -	2.5	166
6596	Rebellion Reach, 0.8 mi. N of Ft. Sumter		32 45.95	79 52.70	-0 03	+0 13	+0 30	+0 03	0.7	0.6	0.0	- -	1.4	321	0.0	- -	1.5	106
6601	The Cove, entrance on the Cove Range		32 46.05	79 52.32	-0 05	+0 40	+0 09	-0 02	0.6	0.4	0.0	- -	1.2	346	0.0	- -	0.9	151
6606	Hog Island Channel		32 46.87	79 52.58	-1 12	-0 31	-0 26	-0 32	0.4	0.4	0.0	- -	0.8	325	0.0	- -	0.8	125
6611	Folly I. Channel, N of Ft. Johnson		32 46.18	79 54.07	-1 42	-0 37	-0 01	-1 11	0.6	0.5	0.0	- -	1.2	301	0.0	- -	1.1	104
6616	Rebellion Rch.-Folly Rch., intersection		32 46.63	79 53.82	-0 42	-0 36	+0 15	-0 31	0.8	0.7	0.0	- -	1.6	310	0.0	- -	1.7	116
6621	Shutes Reach		32 46.73	79 54.53	+0 05	-0 23	-0 15	-0 12	0.5	0.9	0.0	- -	1.0	316	0.0	- -	2.1	108
6626	Horse Reach		32 47.17	79 54.90	+0 03	-0 11	-0 09	-0 03	0.7	0.8	0.0	- -	1.4	350	0.0	- -	1.9	146
6631	Hog Island Reach, east side		32 47.62	79 55.00	-0 08	-0 09	+0 16	-0 04	0.7	0.8	0.0	- -	1.4	010	0.0	- -	1.8	180
6636	Drum Island, 0.4 mile SSE of		32 47.67	79 55.25	+0 01	+0 19	+0 14	-0 14	0.7	0.8	0.0	- -	1.3	011	0.0	- -	1.8	155
6641	Drum Island, east of (bridge)		32 48.27	79 54.92	-0 03	+0 08	+0 18	-0 06	0.6	0.9	0.0	- -	1.2	020	0.0	- -	2.0	183
6646	Hog Island Reach, north end		32 48.62	79 54.85	-0 19	+0 09	+0 35	-0 03	0.7	0.7	0.0	- -	1.3	014	0.0	- -	1.7	189
6651	Drum Island Reach		32 48.88	79 55.12	+0 12	+0 37	+0 32	+0 47	0.3	0.7	0.0	- -	0.6	322	0.0	- -	1.7	144

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CHARLESTON HARBOR Time meridian, 75°W				on CHARLESTON HARBOR, p.82													
	Cooper River																	
6656	Drum Island, 0.2 mile above.....		32 49.18	79 55.75	+0 39	+0 35	+0 04	+0 25	0.6	1.0	0.0	- -	1.1	332	0.0	- -	2.4	152
6661	Shipyard Creek entrance <37>.....		32 49.80	79 56.10	+0 08	+0 32	-0 26	-0 03	0.3	0.7	0.0	- -	0.5		0.0	- -	1.5	197
6666	Daniel Island Reach.....		32 49.97	79 55.80	+0 56	+1 15	+0 45	+0 39	0.7	1.0	0.0	- -	1.3	352	0.0	- -	2.3	190
6671	Daniel Island Bend.....		32 50.92	79 55.75	+0 51	+1 17	+0 55	+0 16	0.5	0.7	0.0	- -	0.9	005	0.0	- -	1.6	152
6676	Daniel Island Bend, west side of <55>		32 50.85	79 56.00	- - -	- - -	- - -	-0 13	- -	0.4	0.0	- -	- - -		0.0	- -	1.0	144
6681	North Charleston.....		32 51.82	79 57.53	+0 53	+1 54	+1 07	+0 05	0.6	0.7	0.0	- -	1.1	335	0.0	- -	1.7	142
6686	Filbin Creek Reach.....		32 53.32	79 57.92	+0 58	+1 32	+1 11	+1 15	0.6	0.8	0.0	- -	1.2	006	0.0	- -	1.8	180
6691	Filbin Creek Reach, 0.2 mile east of.		32 53.28	79 57.63	+0 43	+1 13	+0 35	+0 17	0.3	0.6	0.0	- -	0.6	002	0.0	- -	1.4	197
6696	Ordnance Reach.....		32 54.38	79 57.17	+1 02	+2 00	+1 08	+0 55	0.5	0.5	0.0	- -	1.0	062	0.0	- -	1.2	242
6701	Yellow House Creek.....		32 54.53	79 56.18	+1 33	+2 07	+1 00	+1 00	0.4	0.6	0.0	- -	0.7	088	0.0	- -	1.4	270
6706	Yellow House Landing, 1 mile NW of...		32 55.18	79 55.83	+1 53	+2 09	+1 01	+0 54	0.4	0.8	0.0	- -	0.7	334	0.0	- -	1.8	170
6711	Woods Point.....		32 55.90	79 56.30	+2 08	+2 28	+1 13	+1 31	0.5	0.6	0.0	- -	0.9	002	0.0	- -	1.4	201
6716	Snow Point, 0.5 mile north of.....		32 57.1	79 55.8	+1 42	+2 02	+1 51	+1 21	0.6	0.6	0.0	- -	1.1	010	0.0	- -	1.4	210
6721	Back River entrance.....		32 58.1	79 56.0	+0 13	+0 11	+0 51	+0 22	0.5	0.5	0.0	- -	1.0	252	0.0	- -	1.2	067
6726	Moreland, 0.6 mile SSW of.....		33 00.03	79 54.28	+2 38	+3 07	+2 11	+1 53	0.8	1.0	0.0	- -	1.6	033	0.0	- -	2.4	232
6731	The Tee, 0.4 mile southwest of.....		33 03.80	79 55.78	+3 49	+3 46	+2 32	+3 08	0.5	0.7	0.0	- -	1.0	280	0.0	- -	1.7	098
6736	Childsbury, S.A.L. RR. bridge.....		33 05.63	79 56.55	+4 10	+3 53	+2 18	+3 22	0.4	0.7	0.0	- -	0.7	309	0.0	- -	1.7	141
6741	East Branch, 0.2 mile above entrance.		33 04.1	79 55.2	+2 28	+2 33	+3 02	+2 54	1.0	0.7	0.0	- -	1.8	084	0.0	- -	1.7	262
6746	Bonneau Ferry, east of.....		33 04.3	79 53.0	+2 54	+2 36	+2 47	+3 24	0.4	0.4	0.0	- -	0.7	022	0.0	- -	0.8	197
	Wando River																	
6751	Remley Point, 0.2 mile northwest of..		32 48.97	79 54.57	-0 47	+0 02	+0 23	-0 16	0.7	0.8	0.0	- -	1.3	028	0.0	- -	1.8	191
6756	Hobcaw Creek, 0.5 mile NNW of.....		32 50.05	79 53.83	-0 11	+0 02	+0 16	-0 23	0.6	0.7	0.0	- -	1.2	014	0.0	- -	1.6	195
6761	Rathall Creek entrance.....		32 51.57	79 53.77	-0 08	+0 01	+0 21	-0 30	0.7	0.7	0.0	- -	1.3	030	0.0	- -	1.7	216
6766	Horlbeck Creek, 0.2 mile above ent...		32 53.1	79 50.7	-0 05	-0 05	+0 34	+0 12	0.5	0.4	0.0	- -	1.0	026	0.0	- -	0.9	218
6771	Nowell Creek entrance.....		32 52.7	79 52.5	-0 35	+0 08	-0 09	-0 51	0.4	0.5	0.0	- -	0.7	350	0.0	- -	1.1	171
6776	Horlbeck Creek, 2.5 miles north of...		32 55.1	79 50.3	-0 03	+0 07	+0 29	+0 16	0.4	0.6	0.0	- -	0.8	015	0.0	- -	1.3	207
	Ashley River																	
6781	Battery, southwest of.....		32 46.03	79 56.03	-0 17	-0 25	-0 21	-0 09	0.6	0.8	0.0	- -	1.2	303	0.0	- -	1.8	114
6786	Wappoo Creek, east entrance.....		32 46.42	79 56.95	-0 46	-0 08	-0 13	-0 45	0.7	0.7	0.0	- -	1.4	310	0.0	- -	1.5	134
6791	Highway Bridge.....		32 46.92	79 57.60	-0 42	-0 04	0 00	-0 30	0.6	0.5	0.0	- -	1.2	321	0.0	- -	1.1	138
6796	S.C.L. RR. bridge, 0.1 mile below....		32 47.73	79 58.40	-0 39	+0 10	-0 09	-0 40	0.5	0.5	0.0	- -	1.0	353	0.0	- -	1.1	150
6801	S.C.L. RR. bridge, 1.5 miles above...		32 49.2	79 57.9	-0 11	-0 15	+0 20	-0 03	0.6	0.6	0.0	- -	1.2	351	0.0	- -	1.5	178
6806	West Marsh Island, 0.1 mile east of..		32 49.7	80 00.5	-0 10	-0 04	+0 17	+0 13	0.4	0.4	0.0	- -	0.7	250	0.0	- -	1.0	086
6811	Bees Ferry Bridge.....		32 50.8	80 03.0	+0 40	+0 10	+0 40	+0 10	1.0	1.0	0.0	- -	1.9	310	0.0	- -	2.3	130
	STONO RIVER																	
6816	Stono Inlet.....		32 37.6	79 59.6	-0 47	+0 10	-0 06	-0 57	1.0	1.2	0.0	- -	1.9	315	0.0	- -	2.7	136
6821	Snake Island.....	12	32 38.4	80 01.2	-1 17	-1 16	-0 27	-0 50	0.6	0.5	0.0	- -	1.1	347	0.0	- -	1.0	179
6826	Johns Island Airport, south of.....	12	32 41.0	80 00.2	-0 48	-1 20	-0 10	-0 46	0.8	0.7	0.0	- -	1.5	007	0.0	- -	1.6	192
6831	Johns Island Bridge.....	14	32 45.2	80 00.6	+0 07	-0 13	+0 36	-0 02	0.4	0.4	0.0	- -	0.8	358	0.0	- -	1.0	182
6836	Elliott Cut, west end.....		32 46.0	80 00.0	-0 23	-1 34	-0 43	+0 06	0.8	0.8	0.0	- -	1.6	260	0.0	- -	1.9	080
6841	Johns Island.....	12	32 47.2	80 06.4	-0 57	+1 14	+0 32	-0 44	0.3	0.4	0.0	- -	0.6	249	0.0	- -	0.8	068
6846	Pleasant Point.....	12	32 45.0	80 08.0	+1 31	0 00	+3 57	+3 25	0.2	0.3	0.0	- -	0.4	008	0.0	- -	0.7	196
						+1 05			0.1				0.2	006				
						+4 31			0.4				0.7	011				

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	SOUTH CAROLINA COAST-Continued Time meridian, 75°W				on CHARLESTON HARBOR, p.82									
6851	Folly Island, 3.5 miles east of.....		32 38.4	79 50.5	See table 5.									
6856	Folly Island, 2.0 miles east of.....		32 39.4	79 52.1	See table 5.									
6861	Deveaux Banks, off North Edisto R. ent..	12	32 32.7	80 09.4	-0 49	-0 35	-0 01	-0 38	0.7	0.8	0.1 042	1.4 306	0.1 072	2.0 126
6866	North Edisto River entrance.....		32 33.7	80 11.2	+0 23	+0 36	+1 14	+0 31	1.5	1.6	0.0 - -	2.9 332	0.0 - -	3.7 142
6871	Wadmalaw Island, Wadmalaw River entrance	12	32 39.9	80 14.1	-1 35	-0 23	+0 09	-1 41	0.6	0.3	0.0 - -	1.1 355	0.0 - -	0.7 165
6876	Goshen Point, SE of, Wadmalaw River.....	12	32 42.6	80 10.3	+0 18	+1 44	+1 50	+1 36	0.4	0.3	0.0 - -	0.8 059	0.0 - -	0.7 249
6881	Goshen Point, south of, Wadmalaw River..	12	32 42.8	80 11.2	+0 51	+1 29	+1 38	+1 41	0.3	0.4	0.0 - -	0.6 048	0.0 - -	1.0 235
6886	White Point, south of, Dawho River.....	12	37 37.5	80 16.9	-0 02	-0 32	+0 32	+0 03	0.4	0.4	0.0 - -	0.8 234	0.0 - -	0.8 044
6891	Whooping Island, Dawho River.....	12	32 38.2	80 20.4	+1 03	+0 02	+1 38	+1 25	0.4	0.2	0.0 - -	0.8 246	0.0 - -	0.6 070
6896	South Edisto River entrance.....		32 29.3	80 20.9	-0 14	-0 48	-0 06	+0 12	1.0	1.0	0.0 - -	1.8 350	0.0 - -	2.2 146
6901	Pine Island, South Edisto River.....	15	32 30.4	80 21.7	-0 33	-0 43	+0 15	+0 25	0.6	0.5	0.0 - -	1.2 345	0.0 - -	1.0 163
6906	Fenwick Island Cut, South Edisto River..	15	32 32.1	80 24.8	-3 16	-1 29	-3 17	-1 38	0.4	0.4	0.0 - -	0.8 220	0.0 - -	0.8 023
6911	Sampson Island, S end, South Edisto R...	15	32 33.8	80 23.5	+0 26	0 00	+1 02	+0 40	0.8	0.7	0.0 - -	1.4 037	0.0 - -	1.5 244
6916	Sampson Island, NE end, South Edisto R..	15	32 37.0	80 23.2	+1 02	+0 41	+1 05	+0 40	0.7	0.7	0.0 - -	1.4 334	0.0 - -	1.5 156
6921	Jehossee Island, S tip, South Edisto R..	15	32 36.2	80 25.2	+1 11	+0 14	+0 56	-0 07	0.6	0.6	0.0 - -	1.2 275	0.1 352	1.4 069
6926	Smuggedy Swamp, South Edisto River.....	6	32 39.6	80 24.7	+1 53	+0 40	+1 04	+2 13	0.4	0.6	0.0 - -	0.8 349	0.0 - -	1.4 166
6931	Hutchinson Island, Ashepoo River.....	10	32 31.9	80 26.1	+0 48	+0 40	+0 57	+0 44	0.6	0.6	0.1 349	1.1 278	0.0 - -	1.3 068
6936	Ashepoo Coosaw Cutoff.....	6	32 31.5	80 27.2	+0 49	+0 02	+0 59	+1 00	0.4	0.5	0.0 - -	0.8 065	0.0 - -	1.2 265
6941	Pelican Bank, St. Helena Sound.....	15	32 27.3	80 25.7	-0 28	-1 07	+0 20	-0 47	0.8	0.7	0.0 - -	1.5 300	0.0 - -	1.6 118
6946	Ashepoo River, off Jefford Creek ent....		32 30.4	80 24.6	+0 31	+0 12	+1 03	+0 31	0.8	0.7	0.0 - -	1.5 016	0.0 - -	1.6 197
6951	Egg Bank, St. Helena Sound.....	10	32 26.1	80 26.6	-0 45	-1 58	-0 03	-0 32	0.7	0.6	0.0 - -	1.3 329	0.1 053	1.5 128
6956	Morgan Island, NE of, Coosaw River.....	15	32 29.3	80 28.4	-0 05	-0 07	+0 39	+0 07	0.7	0.8	0.0 - -	1.4 303	0.1 205	1.8 125
6961	Ashe Island Cut, SW of, Coosaw River....	15	32 30.6	80 30.3	-0 01	-0 43	+0 46	+0 19	0.5	0.5	0.0 - -	1.0 325	0.0 - -	1.2 134
6966	Ashe Island Cut, St. Helena Sound.....	6	32 31.2	80 29.3	-0 02	+1 07	+1 04	-0 25	0.4	0.3	0.0 - -	0.8 232	0.0 - -	0.8 034
6971	Combahee River.....	8	32 31.6	80 32.2	+0 22	+0 25	+1 07	+0 41	0.6	0.6	0.0 - -	1.0 335	0.0 - -	1.5 147
6976	Combahee River.....	15	32 33.0	80 33.8	+1 03	+1 01	+1 36	+0 51	0.7	0.9	0.0 - -	1.3 280	0.0 - -	2.0 073
6981	Parrot Creek, Coosaw Island.....	15	32 28.4	80 32.7	-0 21	-1 22	+0 27	-1 06	0.7	0.5	0.0 - -	1.2 355	0.0 - -	1.1 175
6986	Morgan Island, North end, Coosaw River..	15	32 30.2	80 32.2	+0 01	+0 07	+0 30	-0 42	0.8	0.8	0.0 - -	1.4 271	0.0 - -	1.7 085
6991	Williman Creek.....	10	32 33.7	80 35.5	+0 07	+0 53	+1 05	-0 08	0.6	0.7	0.0 - -	1.1 343	0.0 - -	1.6 160
6996	Coosaw Island, South of, Morgan River...	10	32 27.1	80 35.0	-0 24	+0 21	+0 18	-0 09	0.6	0.6	0.0 - -	1.2 252	0.0 - -	1.4 058
7001	Sams Point, Northwest of, Coosaw River..	10	32 29.6	80 35.6	+0 01	+0 02	+0 34	+0 12	0.4	0.5	0.0 - -	0.8 292	0.0 - -	1.1 117
7006	Whale Branch River.....	10	32 31.6	80 41.5	+0 39	-0 43	+0 54	-0 21	0.4	0.6	0.0 - -	0.8 295	0.0 - -	1.3 111
7011	Fripps Inlet, Fripps Island.....	15	32 20.4	80 27.9	-1 02	+0 38	-0 19	-1 41	0.6	0.5	0.0 - -	1.2 299	0.0 - -	1.2 104
7016	Martins Industry, 5 miles east of.....		32 06	80 28	See table 5.									
	PORT ROYAL SOUND													
7021	Southeast Channel entrance.....		32 08	80 35	-1 03	-1 12	-0 06	-0 24	0.7	0.7	0.0 - -	1.3 310	0.0 - -	1.6 150
7026	Port Royal Plantation Tower, east of....	15	32 13.4	80 39.4	0 00	-0 50	+0 12	+0 04	0.8	0.8	0.0 - -	1.5 347	0.2 071	1.9 147
7031	Bay Point Island, S of, Broad River ent.	15	32 14.0	80 37.8	+0 06	-1 43	+0 09	+0 34	0.6	0.8	0.1 238	1.2 320	0.0 - -	1.7 128
7036	Broad River Entrance, Point Royal Sound.	15	32 13.9	80 38.4	+0 03	-0 13	+0 35	-0 37	0.9	0.7	0.1 234	1.7 324	0.2 041	1.7 138
7041	Hilton Head.....		32 15	80 40	-0 17	+0 15	+0 35	-0 11	1.0	0.8	0.0 - -	1.8 324	0.0 - -	1.8 146
7046	Beaufort River Entrance.....	15	32 17.3	80 39.1	-0 14	+0 37	+0 23	-0 15	0.7	0.6	0.0 - -	1.3 010	0.0 - -	1.4 195
7051	Parris Island, Beaufort River.....	10	32 19.6	80 39.4	-0 04	+0 38	+0 14	-0 12	0.6	0.6	0.0 - -	1.2 356	0.0 - -	1.5 175
7056	Chowan Creek.....	15	32 22.2	80 38.3	-0 09	+1 19	+0 26	-0 46	0.5	0.5	0.0 - -	0.9 039	0.0 - -	1.1 246
7061	Parris Island, Beaufort River.....	15	32 21.6	80 40.5	+0 23	+0 45	+0 54	+0 10	0.6	0.6	0.0 - -	1.2 341	0.0 - -	1.4 149
7066	Beaufort River.....	15	32 24.2	80 40.3	+0 31	+0 45	+1 04	+0 21	0.4	0.4	0.1 286	0.9 012	0.0 - -	1.0 200
7071	Beaufort, Beaufort River.....	12	32 25.8	80 40.6	+0 22	+0 44	+1 11	+0 05	0.6	0.5	0.0 - -	1.1 073	0.0 - -	1.1 257

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	PORT ROYAL SOUND Time meridian, 75°W				on CHARLESTON HARBOR, p.82													
7076	Beaufort Airport, Beaufort River.....	15	32 27.0	80 39.8	+0 52	+1 05	+1 24	+0 56	0.5	0.4	0.0	- -	0.9	333	0.0	- -	0.9	152
7081	Brickyard Creek.....	10	32 28.4	80 41.5	+1 15	-0 04	+2 53	+2 46	0.4	0.4	0.0	- -	0.8	351	0.0	- -	0.8	171
7086	Skull Creek, north entrance.....		32 15.8	80 44.5	-2 23	-1 54	-1 55	-2 26	0.4	0.5	0.0	- -	0.7	222	0.0	- -	1.2	035
7091	Daws Island, SE of, Broad River.....	15	32 18.1	80 43.5	+0 13	-0 29	+0 42	+0 19	0.7	0.7	0.0	- -	1.4	330	0.1	048	1.5	150
7096	Parris Island Lookout Tower, Broad River	15	32 18.7	80 42.4	+0 06	-0 41	+0 32	+0 04	0.6	0.6	0.0	- -	1.1	339	0.0	- -	1.4	152
7101	Daws Island, south of, Chechessee River.	15	32 17.2	80 44.6	-0 02	-0 56	+0 37	+0 19	0.5	0.6	0.1	232	1.0	317	0.1	048	1.3	142
7106	Lemon Island South, Chechessee River....	10	32 21.0	80 48.4	0 00	+0 45	+0 41	-0 14	0.5	0.6	0.0	- -	0.9	359	0.0	- -	1.3	175
7111	Broad River Bridge, S of, Broad River...	15	32 22.9	80 46.6	+0 19	-0 49	+0 52	-0 05	0.6	0.6	0.0	- -	1.1	341	0.0	- -	1.5	156
7116	Byrd Creek Entrance, SE of, Broad River.	12	32 27.4	80 49.1	+0 54	+0 17	+1 35	+0 40	0.5	0.4	0.0	- -	0.9	354	0.0	- -	1.0	174
7121	Little Barnwell I., E of, Whale Branch R	6	32 30.1	80 47.2	+1 08	+2 29	+1 57	+0 28	0.5	0.4	0.0	- -	1.0	354	0.0	- -	0.8	175
	CALIBOGUE SOUND				on SAVANNAH RIVER ENTRANCE, p.88													
7126	Braddock Point, SW of, Calibogue Sound..	10	32 06.3	80 50.2	-0 55	+0 04	+0 11	-1 17	1.0	0.8	0.0	- -	1.6	006	0.1	095	2.0	183
7131	Haig Point Light, NW of, Cooper River...	10	32 08.9	80 50.5	-1 31	-0 17	-0 25	-1 25	0.5	0.5	0.0	- -	0.8	278	0.0	- -	1.4	094
7136	Ramshorn Creek Light, E of, Cooper River	6	32 07.8	80 52.9	-0 34	-1 05	+0 30	-1 30	0.6	0.5	0.0	- -	1.0	280	0.0	- -	1.3	098
7141	Spanish Wells, Calibogue Sound.....	30	32 11.2	80 47.1	-0 54	+0 39	+0 27	-1 23	0.8	0.6	0.0	- -	1.4	028	0.0	- -	1.5	204
7146	Skull Creek, south entrance.....	10	32 13.4	80 47.1	-0 02	+2 45	+1 38	+0 42	0.5	0.4	0.0	- -	0.7	053	0.1	309	0.9	231
7151	MacKay Creek, south entrance.....	10	32 13.2	80 47.4	-0 34	-0 09	+0 27	-0 39	0.4	0.4	0.0	- -	0.7	033	0.0	- -	1.2	212
	NEW and WRIGHT RIVERS																	
7156	Bloody Pt., 0.5 mile north of, New R....		32 05.3	80 52.8	-1 43	-0 12	-0 38	-2 26	0.8	0.5	0.0	- -	1.2	332	0.0	- -	1.3	147
7161	Bloody Pt., 0.5 mile west of, New R.....		32 04.9	80 53.0	-1 27	-0 33	-0 21	-1 39	1.1	0.7	0.0	- -	1.7	267	0.0	- -	1.8	092
7166	Wright R., 0.2 mile above Walls Cut.....		32 05.1	80 55.3	-1 18	-0 28	-0 23	-1 29	0.7	0.6	0.0	- -	1.2	332	0.0	- -	1.6	142
7171	Fields Cut <39>.....		32 05	80 57	- - -	- - -	-1 45	-2 04	- -	0.7	- -	- -	- -	- -	- -	- -	0.0	- -
7176	Walls Cut, Turtle Island.....	6	32 04.9	80 55.0	-3 09	-1 09	-0 57	-3 18	0.6	0.4	0.2	087	1.0	294	0.1	060	1.9	042
7181	Daufuskie Landing Light, south of.....	10	32 06.1	80 53.9	-0 33	+0 52	+0 17	-1 58	0.9	0.7	0.0	- -	1.5	043	0.0	- -	0.9	100
	SAVANNAH RIVER																1.7	226
7186	Savannah Light, 1.2 miles southeast of..		31 57	80 40	See table 5.													
7191	SAVANNAH RIVER ENT. (between jetties)...		32 02.2	80 51.5	Daily predictions													
7196	Fort Pulaski.....		32 02.2	80 54.1	+0 02	+0 39	+0 30	-0 04	1.1	1.2	0.0	- -	1.6	250	0.0	- -	2.6	082
7201	Fort Pulaski, 1.8 miles above.....		32 02.7	80 55.9	-0 15	+0 06	+0 14	-0 01	1.4	1.1	0.0	- -	1.8	283	0.0	- -	3.1	098
7206	Fort Pulaski, 4.8 miles above.....		32 04.5	80 58.6	-0 04	+0 19	+0 21	-0 29	1.3	1.2	0.0	- -	2.2	316	0.0	- -	2.8	140
7211	McQueen Island Cut.....	10	32 03.9	80 59.2	-3 19	-2 57	-0 49	-2 57	0.4	0.5	0.0	- -	2.1	296	0.0	- -	3.0	116
						-0 25			0.2				0.7	251	0.0	- -	1.2	069
						+0 55			0.5				0.4	252				
7216	Elba Island Cut, NE of, Savannah River..	10	32 04.4	80 57.9	-0 14	+0 03	-0 22	-0 27	0.9	1.0	0.1	202	0.8	249				
7221	Elba Island, NE of, Savannah River.....	10	32 05.4	80 59.6	+0 21	+0 28	-0 20	-0 40	0.7	1.0	0.0	- -	1.4	288	0.1	183	2.6	104
7226	Elba Island, west of, Savannah River....	10	32 05.7	81 01.2	-0 03	+0 40	-0 15	-1 06	0.6	0.6	0.0	- -	1.1	329	0.0	- -	2.5	149
7231	Fig Island, north of, Back River.....		32 05.1	81 03.0	-0 26	+0 54	-0 10	-1 13	0.6	0.6	0.0	- -	0.9	219	0.0	- -	1.6	040
7236	South Channel, western end.....		32 05.3	81 01.0	+0 02	+0 06	-0 18	-0 48	0.6	0.6	0.0	- -	1.0	280	0.0	- -	1.5	094
7241	Wilmington R. ent., south channel.....		32 04.6	81 00.1	+0 02	-0 48	+1 43	+1 12	0.6	0.6	0.0	- -	1.0	300	0.0	- -	1.5	122
						+1 52			- -				1.0	032	0.0	- -	1.6	206
						+3 48			0.8				0.0	- -				
7246	Savannah, southeast of highway bridge...	10	32 05.2	81 05.8	+0 56	+0 29	-0 09	-0 08	0.7	1.0	0.0	- -	1.3	053				
													1.1	319	0.0	- -	2.6	146

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NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	SAVANNAH RIVER Time meridian, 75°W				on SAVANNAH RIVER ENTRANCE, p.88													
7251	Savannah		32 05	81 05	+0 32	+0 33	+0 16	+0 05	1.0	0.8	0.0	- -	1.6	279	0.0	- -	2.2	106
7256	Kings Island Channel, Savannah R. <68>	10	32 07.6	81 08.2	+0 41	+0 33	+0 21	-0 34	0.9	0.8	0.0	- -	1.5	339	0.0	- -	2.1	152
7261	Seaboard Coast Line Railroad		32 06.2	81 07.1	+0 26	+0 33	+0 44	+0 46	1.5	1.3	0.0	- -	2.4	320	0.0	- -	3.5	150
7266	King Island, west of		32 07.4	81 08.1	+0 41	+0 42	+0 48	+0 35	0.9	0.8	0.0	- -	1.4	337	0.0	- -	2.0	160
7271	Port Wentworth, 0.2 mile above		32 08.8	81 08.4	+1 20	+1 24	+0 39	+1 06	0.6	0.6	0.0	- -	0.9	022	0.0	- -	1.5	210
7276	Seaboard Coast Line Railroad		32 13.9	81 08.7	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	1.9	- -
7281	Wassaw Island, N of E end, Wassaw Sound	10	31 54.9	80 56.3	-1 28	-1 02	-0 30	-1 46	0.9	0.8	0.1	015	1.4	292	0.0	- -	2.1	108
	WASSAW SOUND																	
7286	Entrance, off Petit Chou Island		31 56.5	80 55.9	-1 21	-1 12	-0 39	-1 57	1.1	0.8	0.0	- -	1.7	352	0.0	- -	2.2	156
7291	Wilmington Island, SSE of, Bull River	10	31 58.0	80 55.8	-1 15	+0 26	-0 25	-2 13	0.4	0.6	0.0	- -	0.7	035	0.0	- -	1.5	218
7296	Lazaretto Creek Entrance, N of, Bull R.	10	32 00.0	80 55.7	-1 17	-0 12	-0 18	-2 17	0.6	0.6	0.0	- -	1.0	015	0.0	- -	1.4	207
7301	Bull R., 2 miles below hwy. bridge		32 01.1	80 56.4	-0 58	-0 30	-0 10	-2 10	0.7	0.6	0.0	- -	1.1	327	0.0	- -	1.6	151
7306	Entrance, off Wassaw Island		31 55.0	80 56.8	-1 26	-1 23	-0 27	-1 40	0.9	0.7	0.0	- -	1.4	277	0.0	- -	1.8	105
7311	Wilmington River ent. off Cabbage I		31 56.3	80 58.6	-1 24	-0 48	-0 30	-2 04	0.7	0.7	0.0	- -	1.2	323	0.0	- -	1.7	138
7316	Joe's Cut, Wilmington River	10	31 56.6	80 59.1	-1 34	-1 00	-0 19	-1 57	0.8	0.8	0.1	208	1.2	315	0.0	- -	2.1	123
7321	Wilmington R., 0.5 mi. S of Turners Cr.		32 00.3	81 00.2	-1 11	-0 22	-0 22	-2 04	0.6	0.5	0.0	- -	1.0	344	0.0	- -	1.4	154
7326	Thunderbolt, SE of, Wilmington River	10	32 01.4	81 02.7	-1 00	-1 16	+0 27	+0 12	0.5	0.4	0.0	- -	0.8	298	0.0	- -	1.0	121
7331	Oatland Island, north tip	10	32 04.4	81 00.6	-4 00	-2 26	-0 28	-2 45	0.4	0.4	0.0	- -	0.6	317	0.0	- -	1.0	138
						-0 25			0.1				0.2	315				
						+1 01			0.3				0.5	316				
7336	Skidaway River, north entrance		32 00.5	81 01.0	-1 26	-0 14	-0 34	-2 24	0.7	0.5	0.0	- -	1.1	204	0.0	- -	1.4	016
7341	Skidaway Island, N End, Wilmington River	10	32 00.6	81 00.5	-1 13	+0 04	-0 08	-2 02	0.7	0.7	0.1	225	1.1	307	0.0	- -	1.9	119
7346	Dutch Island, SE of, Skidaway River	10	31 59.5	81 01.2	-1 20	+0 04	-0 18	-2 15	0.6	0.5	0.0	- -	1.0	245	0.0	- -	1.2	061
7351	Isle of Hope City, SE of, Skidaway River	10	31 58.6	81 02.8	-0 57	-0 42	-0 17	-1 53	0.3	0.2	0.0	- -	0.5	268	0.0	- -	0.5	072
7356	Isle of Hope City, Skidaway River	10	31 58.8	81 03.3	-1 14	-0 12	-0 04	-1 38	0.5	0.2	0.0	- -	0.8	212	0.0	- -	0.6	028
7361	Burntpot Island, west of, Skidaway River	6	31 58.1	81 03.2	-1 07	-0 53	+0 02	-1 16	0.6	0.4	0.0	- -	1.0	194	0.0	- -	1.0	018
7366	Skidaway Narrows		31 57.2	81 03.9	-0 37	-0 36	+0 41	-0 37	0.6	0.4	0.0	- -	0.9	218	0.0	- -	1.1	042
7371	Long Island, NNE of, Skidaway River	6	31 57.4	81 03.6	-0 53	-1 21	+1 17	+0 04	0.5	0.3	0.0	- -	0.8	226	0.0	- -	0.8	047
						+2 30			0.1				0.2	223				
						+3 30			0.2				0.4	228				
7376	Long Island, south of, Skidaway River	10	31 56.6	81 04.4	-5 05	-4 55	-5 52	-8 18	0.3	0.2	0.0	- -	0.5	075	0.0	- -	0.5	258
								-5 23		0.0							0.0	- -
								-3 08		0.2							0.6	257
7381	Pigeon Island, SSE of, Skidaway River	10	31 56.2	81 04.6	-3 17	-2 55	-0 41	-2 29	0.2	0.4	0.0	- -	0.4	331	0.0	- -	1.0	150
						-1 25			0.1				0.2	336				
						+0 52			0.3				0.5	333				
7386	Burnside Island, SE of, Burnside River	10	31 55.3	81 04.8	-1 20	+0 41	-0 05	-2 18	0.5	0.5	0.0	- -	0.9	114	0.0	- -	1.2	295
7391	Little Don Island, east of, Vernon River	10	31 52.2	81 04.4	-0 57	-1 28	+0 12	-1 51	0.9	0.6	0.2	232	1.4	316	0.1	234	1.5	153
7396	Little Ogeechee River Entrance	10	31 53.3	81 05.9	-0 55	-1 11	+0 12	-1 19	0.8	0.8	0.0	- -	1.3	259	0.1	179	2.1	071
	...do	20	31 53.3	81 05.9	-1 10	-1 02	+0 20	-1 10	0.7	0.7	0.0	- -	1.1	244	0.0	- -	1.9	073
7401	Montgomery, Vernon River	6	31 56.1	81 07.7	-1 12	-0 12	-0 09	-1 43	0.4	0.4	0.0	- -	0.6	267	0.0	- -	1.1	089
7406	Odingsell River Entrance	10	31 52.1	81 00.0	-1 34	+0 32	-0 33	-2 27	0.8	0.7	0.0	- -	1.3	032	0.1	127	1.8	212
	...do	20	31 52.1	81 00.0	-1 59	+0 30	-0 27	-2 25	0.8	0.6	0.0	- -	1.3	030	0.0	- -	1.6	210
7411	Wassaw Island, SSW of, Ossabaw Sound	10	31 51.4	81 00.5	-1 06	-1 16	-0 12	-1 14	1.0	0.9	0.1	034	1.6	316	0.0	- -	2.3	123
	...do	20	31 51.4	81 00.5	-1 26	-1 10	-0 18	-1 14	0.9	0.7	0.0	- -	1.4	312	0.0	- -	1.8	132
7416	Bradley Point, NNE of, Ossabaw Sound	10	31 49.9	81 02.3	-1 28	-1 10	-0 33	-1 25	0.8	0.6	0.1	209	1.3	302	0.1	198	1.7	125

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	WASSAW SOUND Time meridian, 75°W				on SAVANNAH RIVER ENTRANCE, p.88													
7421	Raccoon Key, Ossabaw Sound	10	31 51.7	81 03.3	-1 25	-1 35	-0 21	-1 48	1.0	0.7	0.1	033	1.6	285	0.1	198	1.9	117
7426	Little Wassaw Island, SW of, Ossabaw Sd.	10	31 52.2	81 03.0	-1 45	-0 29	-0 16	-2 04	1.0	0.5	0.1	209	1.7	282	0.1	193	1.4	116
	OSSABAW SOUND																	
7431	Vernon R., 1.2 miles S of Possum Point		31 53.9	81 05.9	-1 04	-0 10	+0 03	-1 46	0.7	0.7	0.0	- -	1.1	324	0.0	- -	1.7	166
7436	Little Ogeechee River Entrance, north of	6	31 53.8	81 05.7	-1 21	+0 17	-0 15	-2 16	0.8	0.6	0.0	- -	1.2	324	0.1	239	1.6	156
7441	Raccoon Key & Egg Island Shoal, between	10d	31 50.57	81 04.05	-0 20	+0 05	-0 08	-1 10	1.0	0.8	0.2	274	1.6	254	0.2	197	2.0	129
7446	Florida Passage, N of, Ogeechee River	10	31 51.4	81 08.6	-0 30	-0 11	+0 14	-0 18	0.9	0.8	0.0	- -	1.4	302	0.0	- -	2.1	127
7451	Florida Passage (south)	6d	31 49.78	81 09.47	-2 28	-1 25	-0 08	-1 23	0.6	0.5	0.0	- -	0.9	187	0.3	191	1.4	018
	ST. CATHERINES SOUND																	
	Bear River																	
7456	610 Statute Mile Mark	6d	31 48.63	81 10.60	-0 20	+0 36	+0 10	-0 52	0.6	0.6	0.2	338	1.0	357	0.2	280	1.5	175
7461	North of Big Tom Creek Entrance	10d	31 47.00	81 09.62	-1 04	-0 25	-0 04	-1 38	0.8	0.6	0.0	- -	1.2	011	0.0	- -	1.5	179
7466	South of Kilkenny Creek Entrance		31 45.50	81 10.40	-0 14	+1 13	+0 13	-1 25	0.8	0.8	0.0	- -	1.2	348	0.0	- -	2.0	190
7471	Northwest of Newell Creek Entrance	10d	31 44.93	81 09.93	-0 51	0 00	-0 01	-1 25	0.7	0.7	0.1	086	1.1	349	0.1	076	1.8	149
7476	Medway River at Marsh Island	10d	31 44.60	81 13.20	-0 20	-0 30	0 00	-1 09	0.4	0.6	0.3	306	0.6	313	0.1	209	1.6	117
7481	St. Catherines Sound Entrance	10d	31 42.90	81 08.43	-1 19	-0 43	+0 28	-1 40	1.1	0.6	0.1	020	1.8	291	0.2	173	1.7	126
7486	Medway River, northwest of Cedar Point	10d	31 42.87	81 11.45	-1 20	-0 55	-0 08	-0 34	0.9	0.7	0.5	139	1.5	304	0.4	324	1.7	146
7491	N. Newport River, NE of Vandyke Creek	10d	31 41.47	81 11.22	-1 07	0 00	0 00	-1 34	0.8	0.6	0.0	- -	1.3	233	0.0	- -	1.7	045
7496	N. Newport River, above Walburg Creek	6d	31 40.43	81 11.72	-1 14	+0 18	-0 24	-0 53	0.7	0.6	0.2	011	1.0	195	0.0	- -	1.6	011
7501	N. Newport River, NW of Johnson Creek	10d	31 39.78	81 12.63	-0 20	-1 13	-0 12	-0 40	0.6	0.7	0.2	308	0.9	312	0.0	- -	1.8	138
7506	N. Newport River, ESE of S. Newport Cut	6d	31 39.92	81 15.87	-0 08	-0 25	+0 42	+0 02	0.6	0.5	0.1	210	1.0	319	0.0	- -	1.4	147
7511	S. Newport River, below S. Newport Cut	10d	31 39.02	81 18.12	+0 40	+1 18	+2 56	+2 02	0.6	0.4	0.2	128	0.9	306	0.1	042	1.0	134
7516	S. Newport River, above Swain River Ent.	10d	31 37.47	81 13.00	-1 02	-1 25	+0 15	-0 56	0.7	0.5	0.1	156	1.1	335	0.1	075	1.2	156
	SAPELO SOUND																	
7521	Entrance	19d	31 32.4	81 10.8	-1 10	+0 16	+0 09	-1 12	1.1	0.9	0.1	212	1.7	290	0.1	194	2.2	118
	...do	29d	31 32.4	81 10.8	-1 28	-0 48	-0 02	-1 15	0.8	0.7	0.0	- -	1.3	289	0.1	189	1.7	116
7526	Johnson Creek, midway between ends		31 37.6	81 11.3	-2 30	-0 56	-0 20	-2 12	0.5	0.4	0.0	- -	0.8	015	0.0	- -	0.9	195
7531	Cedar Hammock, south of	12d	31 32.7	81 14.8	-1 06	-1 12	+0 03	-1 51	0.9	0.5	0.0	- -	1.4	277	0.0	- -	1.2	096
7536	Sapelo River Entrance	11d	31 32.1	81 16.3	-1 03	-1 17	+0 02	-0 56	0.7	0.5	0.0	- -	1.1	234	0.0	- -	1.3	058
7541	Sutherland Bluff, Sapelo River		31 32.9	81 20.0	-1 10	-0 02	+0 03	-1 29	0.6	0.4	0.0	- -	1.0	281	0.0	- -	1.2	104
7546	Front River	13d	31 30.8	81 17.9	-1 13	+1 04	-0 10	-2 18	0.5	0.4	0.0	- -	0.8	227	0.0	- -	1.0	056
	Mud River																	
7551	New Teakettle Cr., 0.8 mi. N of <42>		31 29.8	81 17.4	-1 34	-0 41	-0 53	-2 24	0.5	0.4	0.0	- -	0.8	236	0.0	- -	1.0	053
7556	Crescent River	11d	31 29.2	81 18.4	-2 07	+0 55	-0 19	-1 34	0.3	0.4	0.0	- -	0.5	293	0.1	203	1.1	133
7561	Old Teakettle Creek (north)	13d	31 28.7	81 19.7	-1 15	-0 11	+0 29	-0 50	0.6	0.5	0.0	- -	0.9	078	0.0	- -	1.2	256
	DOBOY SOUND																	
7566	Bar		31 20.7	81 14.1	-1 09	-0 41	+0 06	-1 06	0.8	0.5	0.0	- -	1.3	312	0.0	- -	1.4	114
7571	Entrance	14d	31 20.5	81 15.8	-1 12	-0 22	-0 06	-2 02	1.0	0.7	0.0	- -	1.6	289	0.0	- -	1.8	106
	...do	22d	31 20.5	81 15.8	-1 36	-0 17	-0 05	-1 39	1.0	0.6	0.0	- -	1.6	276	0.0	- -	1.7	099
7576	Old Teakettle Creek Entrance, south of	15d	31 25.2	81 18.9	-1 25	-1 11	+0 15	-1 40	0.7	0.4	0.0	- -	1.1	335	0.0	- -	1.1	159

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	DOBOY SOUND Time meridian, 75°W				on SAVANNAH RIVER ENTRANCE, p.88													
7581	Old Teakettle Creek (south)	13d	31 26.2	81 18.5	-3 52	-1 57	-2 01	-2 57	0.6	0.3	0.0	- -	0.9	021	0.0	- -	0.7	207
7586	Folly River and Cardigan River, between.	10d	31 26.5	81 20.2	-1 35	-1 08	-0 01	-1 13	0.4	0.2	0.0	- -	0.7	327	0.0	- -	0.6	150
7591	South River	13d	31 22.0	81 18.7	-1 02	-0 37	-0 17	-0 37	0.7	0.5	0.0	- -	1.1	282	0.0	- -	1.3	095
	...do	21d	31 22.0	81 18.7	-1 21	-0 45	-0 14	-0 37	0.6	0.3	0.0	- -	1.0	286	0.0	- -	0.8	095
7596	North River at Darien River	9d	31 23.0	81 20.1	0 50	-0 45	+0 23	+0 09	0.3	0.2	0.1	317	0.5	247	0.0	- -	0.4	029
7601	Doboy Island (North River)	12d	31 24.2	81 19.7	-0 54	-0 18	+1 02	0 00	0.7	0.4	0.0	- -	1.1	224	0.0	- -	1.1	037
	...do	20d	31 24.2	81 19.7	-1 00	+0 24	+1 01	+0 09	0.6	0.2	0.0	- -	0.9	225	0.0	- -	0.6	043
7606	Buzzard Roost Creek	13d	31 24.9	81 22.5	-0 18	0 00	+1 11	+0 15	0.4	0.2	0.0	- -	0.7	177	0.0	- -	0.4	002
	ALTAMAHA SOUND																	
7611	Little Egg Island, northwest of	12d	31 19.1	81 18.3	-1 13	-1 05	-0 10	-1 23	0.7	0.5	0.0	- -	1.1	296	0.0	- -	1.2	110
7616	Little Mud River Range	9d	31 19.6	81 19.1	-1 18	-1 17	-0 08	-0 19	0.4	0.4	0.0	- -	0.6	304	0.0	- -	0.9	116
7621	Little St. Simon Island (north)	11d	31 18.7	81 21.2	-0 30	-0 06	0 00	-1 42	0.7	0.6	0.0	- -	1.2	267	0.0	- -	1.6	089
7626	Onemile Cut, 1 mile southeast of		31 18.8	81 21.1	+0 06	-0 09	-0 54	-0 45	0.6	0.7	0.0	- -	1.0	272	0.0	- -	1.9	092
	Buttermilk Sound																	
7631	Broughton Island (south)	9d	31 18.6	81 24.8	-2 46	0 00	+0 14	-2 04	0.5	0.3	0.1	292	0.9	222	0.0	- -	0.8	030
	ST. SIMONS SOUND				on SAVANNAH RIVER ENTRANCE, p.88													
7636	Bar Channel	12d	31 06.3	81 20.3	-0 53	-0 56	+0 24	-0 15	0.5	0.6	0.1	033	0.8	308	0.0	- -	1.7	119
7641	Entrance	11d	31 07.6	81 24.3	-1 07	-0 44	-0 06	-1 12	1.0	0.9	0.0	- -	1.6	262	0.0	- -	2.2	080
	...do	29d	31 07.6	81 24.3	-0 58	-0 15	+0 21	-0 34	0.7	0.6	0.0	- -	1.2	257	0.1	188	1.7	092
7646	Back River entrance	10d	31 08.9	81 26.5	-1 17	+1 22	+0 21	-1 29	0.6	0.4	0.0	- -	1.0	288	0.0	- -	1.1	111
	...do	18d	31 08.9	81 26.5	-2 09	+1 24	+0 23	-1 28	0.6	0.3	0.0	- -	0.9	280	0.0	- -	0.8	109
7651	Mackay R., 0.5 mi. N of Troup Cr. ent		31 13.5	81 26.0	+0 16	-0 03	+0 50	+0 11	0.6	0.6	0.0	- -	0.9	348	0.0	- -	1.5	166
7656	Brunswick River, off Quarantine Dock		31 06.7	81 28.4	-0 30	-0 15	+0 26	-0 52	0.8	0.8	0.0	- -	1.3	300	0.0	- -	2.1	125
7661	Brunswick River Bridge, southeast of	13d	31 06.9	81 28.6	-0 55	+0 01	+0 41	-1 22	0.6	0.6	0.1	223	1.0	308	0.0	- -	1.4	132
	...do	21d	31 06.9	81 28.6	-0 21	+0 30	+1 11	-0 15	0.6	0.6	0.1	226	1.0	306	0.0	- -	1.5	129
7666	Brunswick, off Prince Street Dock		31 08.3	81 29.8	-0 41	+0 43	+0 21	-1 21	0.6	0.5	0.0	- -	1.0	342	0.0	- -	1.3	166
7671	Turtle River, off Allied Chemical Corp.		31 10.6	81 31.5	-0 24	+0 06	+0 51	-0 46	0.8	0.6	0.0	- -	1.3	348	0.0	- -	1.7	165
7676	Turtle River, off Andrews Island	20d	31 08.6	81 31.6	-1 01	+0 28	+0 46	-0 36	0.7	0.5	0.0	- -	1.1	339	0.0	- -	1.4	153
	ST. ANDREWS SOUND																	
7681	Entrance		30 59.2	81 24.3	-0 58	+0 01	+0 17	-1 13	1.3	0.8	0.0	- -	2.1	268	0.0	- -	2.2	103
7686	Jekyll Creek, south entrance		31 02.1	81 26.0	-1 01	-0 33	-0 10	-1 33	0.6	0.5	0.0	- -	1.0	060	0.0	- -	1.4	232
7691	Cumberland River, north entrance		30 57.5	81 25.9	-1 09	+0 20	-0 02	-1 31	0.8	0.6	0.0	- -	1.3	191	0.0	- -	1.5	018
7696	Cabin Bluff, Cumberland River		30 52.9	81 30.8	-0 19	+1 17	+1 06	-0 58	0.8	0.5	0.0	- -	1.3	171	0.0	- -	1.3	355
	CUMBERLAND SOUND				on MIAMI HARBOR ENTRANCE, p.100													
	St. Marys River																	
7701	Fort Clinch, 0.6 n.mi. NE of	11d	30 42.6	81 26.8	-0 40	-0 21	-0 17	-1 10	1.2	1.7	0.1	- -	2.2	- -	0.2	- -	2.7	- -
7706	Fort Clinch, 0.3 n.mi. N of	50d	30 42.6	81 27.2	-1 10	-0 36	-0 37	-1 39	0.8	1.0	0.2	226	1.4	275	0.1	280	1.6	087
7711	Fort Clinch, 0.1 n.mi. N of	12d	30 42.4	81 27.3	-0 40	-0 15	-0 21	-1 09	1.2	1.6	0.1	- -	2.2	- -	0.2	- -	2.6	- -
	...do	47d	30 42.4	81 27.3	-0 57	-0 17	-0 19	-1 09	0.8	1.0	0.1	286	1.4	265	0.1	070	1.6	093

Endnotes can be found at the end of Table 2.

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TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS -

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	CUMBERLAND SOUND Time meridian, 75°W				on MIAMI HARBOR ENTRANCE, p.100													
	St. Marys River																	
7716	Fort Clinch, 1.1 n.mi. NW of	14d	30 42.9	81 28.6	-0 33	-0 23	-0 04	-0 48	0.7	1.2	0.1	214	1.3	309	0.1	067	1.9	133
	...do	29d	30 42.9	81 28.6	-0 47	-0 20	-0 12	-0 58	0.6	0.8	0.1	010	1.1	315	0.1	032	1.3	122
7721	Cumberland Island, Range B Channel	22d	30 43.9	81 29.1	-0 52	-1 00	-0 20	-1 00	0.7	1.2	0.0	- -	1.2	- -	0.1	- -	1.8	- -
7726	Drum Point Island, Range D Channel	12d	30 45.9	81 29.2	-0 39	-0 33	-0 12	-1 09	0.6	1.0	0.1	165	1.1	350	0.1	154	1.5	170
	...do	22d	30 45.9	81 29.2	-0 44	-0 56	-0 22	-1 15	0.5	0.8	0.2	160	0.9	351	0.1	115	1.3	170
7731	Kings Bay, Lower Turning Basin	14d	30 47.9	81 30.8	-0 37	+0 16	-0 32	-2 10	0.2	0.2	0.1	282	0.3	307	0.1	316	0.3	127
7736	Stafford Island, west of		30 48.6	81 29.5	-0 59	-0 50	-0 41	-2 07	0.7	0.8	0.0	- -	1.3	000	0.0	- -	1.3	180
7741	Old Fernandina, Amelia River		30 41.2	81 27.6	-1 18	-0 12	-0 34	-1 36	0.8	1.1	0.0	- -	1.4	188	0.0	- -	1.8	358
7746	Fernandina Beach, Amelia River	7d	30 40.2	81 28.1	-0 25	-0 33	-0 17	-0 57	0.5	0.5	0.0	- -	0.9	208	0.0	- -	0.8	034
7751	Kingsley Creek, highway bridge		30 37.7	81 29.1	+1 11	+0 55	+0 39	+0 19	0.6	1.0	0.0	- -	1.1	150	0.0	- -	1.6	330
	NASSAU SOUND																	
7756	Midsound, 1 mi. N of Sawpit Creek ent		30 31.4	81 27.1	+0 01	-0 24	-0 14	-0 30	0.9	1.1	0.0	- -	1.7	312	0.0	- -	1.7	135
7761	South Amelia River, off Walker Creek		30 32.2	81 27.9	-1 09	-0 21	-0 39	-2 06	0.8	0.9	0.0	- -	1.4	341	0.0	- -	1.4	162
7766	Nassau River, SW of Mesa Marsh		30 32.0	81 28.8	+0 08	-0 21	0 00	-0 22	0.8	1.1	0.0	- -	1.5	294	0.0	- -	1.7	129
7771	Ft. George River		30 27.4	81 27.1	-1 36	-1 20	-1 25	-2 29	0.2	0.6	0.0	- -	0.3	334	0.0	- -	0.9	162
	ST. JOHNS RIVER				on ST. JOHNS RIVER ENTRANCE, p.94													
7776	St. Johns Point, 5 miles east of		30 23.5	81 18.0	See table 5.													
7781	ST. JOHNS RIVER ENT. (between jetties)		30 24.0	81 23.0	Daily predictions						0.0	- -	1.9	277	0.0	- -	2.3	099
7786	Mayport		30 23.6	81 26.0	-0 07	+0 24	-0 08	-0 04	1.2	1.3	0.0	- -	2.2	211	0.0	- -	3.1	026
7791	Mile Point, southeast of		30 22.9	81 26.7	-0 07	+0 12	+0 30	+0 46	1.4	1.3	0.0	- -	2.7	241	0.0	- -	2.9	073
7796	Pablo Creek bascule bridge <40>		30 19.4	81 26.3	-0 25	-0 48	+0 27	+0 55	1.8	2.3	0.0	- -	3.4	180	0.0	- -	5.2	000
7801	Sisters Creek entrance (bridge)		30 23.4	81 27.7	-3 45	-3 24	-2 29	-2 34	0.7	0.6	0.0	- -	1.4	000	0.0	- -	1.4	180
7806	St. Johns Bluff		30 23.4	81 29.5	+0 13	+0 43	+0 02	+1 02	0.8	1.0	0.0	- -	1.6	244	0.0	- -	2.2	059
7811	Drummond Point, channel south of		30 24.55	81 36.17	+1 31	+2 03	+2 25	+2 57	0.7	0.7	0.0	- -	1.3	232	0.0	- -	1.6	060
7816	Phoenix Park		30 22.92	81 37.72	+2 17	+2 55	+3 01	+3 30	0.6	0.4	0.0	- -	1.1	192	0.0	- -	1.0	352
7821	Chaseville, channel near		30 22.6	81 37.4	+2 35	+3 20	+2 35	+3 20	0.6	0.7	0.0	- -	1.1	151	0.0	- -	1.6	337
7826	Quarantine Station		30 21.42	81 37.08	+2 17	+2 41	+2 49	+3 32	0.6	0.5	0.0	- -	1.1	183	0.0	- -	1.2	001
7831	Commodore Point, terminal channel		30 19.05	81 37.58	+2 14	+2 50	+2 54	+3 27	0.5	0.4	0.0	- -	1.0	209	0.0	- -	1.0	062
7836	Jacksonville, off Washington St		30 19.3	81 39.2	+1 59	+2 31	+2 39	+3 14	0.9	0.8	0.0	- -	1.8	281	0.0	- -	1.9	118
7841	Jacksonville, F.E.C. RR. bridge		30 19.3	81 39.9	+1 59	+2 45	+2 44	+3 20	0.8	0.7	0.0	- -	1.6	240	0.0	- -	1.7	060
7846	Winter Point		30 18.5	81 40.5	+1 59	+2 43	+3 49	+3 40	0.6	0.5	0.0	- -	1.1	200	0.0	- -	1.1	015
7851	Mandarin Point		30 09.3	81 41.1	+3 00	+3 07	+3 02	+3 36	0.3	0.3	0.0	- -	0.6	179	0.0	- -	0.7	013
7856	Red Bay Point, draw bridge		29 59.1	81 37.8	+2 34	+3 27	+4 59	+4 01	0.5	0.3	0.0	- -	0.9	115	0.0	- -	0.6	300
7861	Tocoi to Lake George		- - - -	- - - -	Current weak and variable													
	FLORIDA COAST				on MIAMI HARBOR ENTRANCE, p.100													
7866	Ft. Pierce Inlet		27 28.3	80 17.5	+1 19	+0 39	+0 48	+0 35	1.5	2.0	0.0	- -	2.6	250	0.0	- -	3.1	072
7871	Lake Worth Inlet (between jetties)		26 46.33	80 02.13	+0 13	-0 07	-0 01	0 00	1.3	2.3	0.0	- -	2.4	273	0.0	- -	3.6	094
7876	Fort Lauderdale, New River		26 06.73	80 07.18	-0 43	-0 39	-0 06	-0 16	0.4	0.3	0.0	- -	0.8	005	0.0	- -	0.5	130

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	PORT EVERGLADES Time meridian, 75°W				on MIAMI HARBOR ENTRANCE, p.100													
7881	Pier 2, 1.3 miles east of <41>		26 05.63	80 05.78	- - -	- - -	- - -	- - -	- -	- -	0.0	- -	0.2		0.0	- -	0.4	
7886	Entrance (between jetties)		26 05.58	80 06.32	-0 08	-0 49	-0 43	-0 34	0.3	0.4	0.0	- -	0.6	275	0.0	- -	0.7	095
7891	Entrance from southward (canal)		26 05.2	80 06.9	+0 40	+0 07	+0 31	-0 09	0.7	1.1	0.0	- -	1.3	167	0.0	- -	1.7	358
7896	Turning Basin		26 05.70	80 07.05	-1 01	-1 07	-1 02	-1 11	0.1	0.3	0.0	- -	0.2	320	0.0	- -	0.5	155
7901	Turning Basin, 300 yards north of		26 05.8	80 07.1	-0 20	-1 09	-0 27	-0 14	0.5	1.1	0.0	- -	0.9	349	0.0	- -	1.8	160
7906	17th Street Bridge		26 06.02	80 07.13	-0 38	-0 53	-0 28	-0 55	1.1	1.2	0.0	- -	1.9	350	0.0	- -	1.9	170
	MIAMI HARBOR																	
7911	Bakers Haulover Cut		25 54.0	80 07.4	-0 01	+0 07	+0 14	-0 17	1.6	1.6	0.0	- -	2.9	270	0.0	- -	2.5	090
	Government Cut																	
7916	East entrance, off north jetty	13d	25 45.59	80 07.35	-0 02	-0 19	-0 08	-0 26	0.4	0.9	0.3	157	0.6	236	0.1	317	1.5	092
7921	East entrance, inside south jetty	13d	25 45.61	80 07.66	-0 07	-0 06	-0 04	0 00	1.2	1.1	0.2	055	2.1	343	0.4	052	1.8	116
7926	Midway, north side	13d	25 45.84	80 07.96	-0 12	-0 03	-0 07	-0 08	0.7	0.5	- -	- -	1.2	292	- -	- -	0.7	108
	...do	28d	25 45.84	80 07.96	-0 11	-0 05	-0 10	-0 06	0.4	0.3	- -	- -	0.7	288	- -	- -	0.4	104
7931	MIAMI HARBOR ENTRANCE	16d	25 45.90	80 08.17	Daily predictions				- -	- -	- -	- -	1.8	293	- -	- -	1.6	112
	...do	31d	25 45.90	80 08.17	+0 01	-0 02	-0 02	+0 02	0.8	1.0	- -	- -	1.4	298	- -	- -	1.6	104
7936	West entrance, south side	15d	25 45.85	80 08.25	+0 09	+0 10	-0 04	+0 01	0.9	1.6	0.1	010	1.6	288	- -	- -	2.5	100
	Main Channel																	
7941	Causeway Is., 0.2 mi. SE of <65>	13d	25 46.06	80 08.58	+0 01	+0 23	-0 01	-0 14	0.8	0.4	0.1	044	1.4	306	0.2	222	0.7	131
7946	Lummus Is., northeast corner <66>	13d	25 46.02	80 08.70	-0 07	-0 02	+0 06	-0 04	0.1	0.4	- -	- -	0.2	265	- -	- -	0.7	104
7951	Lummus Is., 0.18 mi. off NW corner	16d	25 46.32	80 09.45	-0 05	+0 50	+0 28	-0 08	0.3	0.3	- -	- -	0.5	285	- -	- -	0.5	102
7956	Dodge Is., 0.1 mi. off NW corner	12d	25 46.89	80 10.90	+0 17	-0 14	+0 01	+0 04	0.2	0.3	- -	- -	0.4	277	- -	- -	0.4	093
	...do	26d	25 46.89	80 10.90	+0 12	-0 32	+0 14	+0 20	0.2	0.2	- -	- -	0.3	276	- -	- -	0.3	091
	Fishermans Channel																	
7961	Lummus Is., southeast corner <67>	10d	25 45.95	80 08.71	+0 08	+0 06	+0 19	-0 20	0.5	0.2	- -	- -	0.9	208	0.2	137	0.4	086
7966	Fisher Is., 0.2 mi. NW of	15d	25 45.87	80 09.08	+0 14	+0 38	+0 17	+0 39	0.6	0.7	- -	- -	1.0	280	0.1	014	1.1	090
7971	Lummus Is., 0.15 mi. off SW corner	15d	25 45.89	80 09.69	+0 20	-0 20	+0 10	+0 22	0.3	0.6	- -	- -	0.6	271	- -	- -	0.9	095
7976	West end, SW of Dodge Island	11d	25 46.36	80 10.74	-0 05	-0 32	-0 15	-0 21	0.1	0.2	0.1	002	0.[illegible]	277	- -	- -	0.3	089
7981	Miami River entrance	10d	25 46.21	80 11.23	+0 15	-0 02	-0 01	+0 46	0.1	0.4	- -	- -	[illegible]	261	- -	- -	0.6	071
7986	Fowey Rocks Light, 1.5 miles SW of		25 35	80 07	See table 5.													
	FLORIDA REEFS t4o MIDNIGHT PASS				on KEY WEST, p.106													
7991	Caesar Creek, Biscayne Bay		25 23.2	80 13.6	+0 07	-0 08	-0 14	-0 05	1.2	1.0	0.0	- -	1.2	316	0.0	- -	1.8	123
7996	Long Key, drawbridge east of		24 50.4	80 46.2	+0 58	+1 27	+2 21	+1 33	1.1	0.7	0.0	- -	1.1	000	0.0	- -	1.2	202
8001	Long Key Viaduct		24 48.1	80 51.9	+1 34	+1 28	+2 02	+1 57	0.9	0.7	0.0	- -	0.9	349	0.0	- -	1.2	170
8006	Moser Channel, swingbridge		24 42.0	81 10.2	+1 07	+1 30	+1 50	+1 47	1.4	1.0	0.0	- -	1.4	339	0.0	- -	1.8	166
8011	Bahia Honda Harbor, bridge		24 39.4	81 17.3	+1 01	+0 39	+1 53	+1 05	1.4	1.2	0.0	- -	1.4	004	0.0	- -	2.1	182
8016	No Name Key, northeast of		24 42.3	81 18.8	+0 55	+1 24	+1 20	+0 53	0.7	0.5	0.0	- -	0.7	312	0.0	- -	0.9	142
	Key West																	
8021	Main Ship Channel entrance		24 28.4	81 48.1	-0 44	-0 12	+0 10	+0 10	0.2	0.3	0.0	- -	0.2	040	0.0	- -	0.4	178
8026	Main Ship Channel <42>		24 30.5	81 48.3	- - -	- - -	- - -	+0 30	- -	0.2	0.0	- -	- -	064	0.0	- -	0.4	133
8031	KEY WEST, 0.3 mi. W of Ft. Taylor		24 32.9	81 49.0	Daily predictions						0.0	- -	1.0	022	0.0	- -	1.7	194
8036	Ft. Taylor, 0.6 mile N of		24 33.5	81 48.6	+0 20	+0 13	-0 11	+0 13	0.6	0.7	0.0	- -	0.6	042	0.0	- -	1.2	202
8041	Turning Basin		24 34.0	81 48.25	+0 43	+0 44	+0 29	+1 06	0.8	0.6	0.0	- -	0.8	048	0.0	- -	1.1	216
8046	Northwest Channel		24 35.0	81 50.9	-0 08	-0 03	-0 09	-0 07	1.2	0.8	0.0	- -	1.2	353	0.0	- -	1.4	162
8051	Northwest Channel		24 37.3	81 52.8	-0 28	-0 19	-0 20	-0 20	0.6	0.4	0.0	- -	0.6	346	0.0	- -	0.6	168

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	FLORIDA REEFS to MIDNIGHT PASS Time meridian, 75°W				on KEY WEST, p.106													
8056	Boca Grande Channel		24 34	82 04	-0 40	-0 45	-0 01	-0 06	1.1	0.8	0.0	- -	1.1	353	0.0	- -	1.2	194
8061	New Ground <43>		24 39.0	82 25.0	+1 36	+1 55	+1 28	+1 18	0.7	0.4	0.2	356	0.7	068	0.2	142	0.7	244
8066	Isaac Shoal		24 33.5	82 32.2	+1 00	+0 54	+1 52	+1 55	1.0	0.5	0.0	- -	1.0	002	0.0	- -	0.8	181
8071	Southeast Channel		24 37.62	82 51.07	-0 27	-0 06	+0 37	+0 36	0.6	0.4	0.0	- -	0.6	004	0.0	- -	0.6	172
8076	Southwest Channel		24 36.92	82 54.70	+0 45	+0 59	+1 25	+2 04	0.4	0.4	0.0	- -	0.4	001	0.0	- -	0.6	209
					on TAMPA BAY ENTRANCE, p.112													
8081	Point Ybel, 0.4 mile northwest of		26 27.40	82 01.12	-0 57	-1 05	+0 39	+0 13	1.0	0.6	0.0	- -	1.0	255	0.0	- -	0.9	080
8086	Captiva Pass <44>		26 36.56	82 13.34	-1 25	-1 42	-0 52	-0 45	1.8	0.9	0.0	- -	1.8	067	0.0	- -	1.9	251
8091	Boca Grande Pass, Charlotte Harbor		26 42.86	82 15.40	-0 25	-0 50	-0 25	-0 17	2.2	1.3	0.0	- -	2.2	057	0.0	- -	1.8	251
8096	Pine Island Sound		26 40.90	82 11.87	- - -	- - -	- - -	- - -	- -	- -	0.0	- -	0.5	011	0.0	- -	0.5	191
8101	Little Pine I. bridge, Matlacha Pass		26 37.9	82 04.1	- - -	-0 32	- - -	- - -	0.6	- -	0.0	- -	0.6	132	0.0	- -	- -	- -
8106	Cape Haze, 2.3 mi. S of, Charlotte Hbr.		26 44.7	82 09.1	-0 02	+0 28	+0 02	+0 56	0.5	0.4	0.0	- -	0.5	080	0.0	- -	0.5	268
8111	Punta Gorda, Peace River Bridge		26 56.7	82 03.4	- - -	- - -	- - -	- - -	0.4	0.2	0.0	- -	0.4	047	0.0	- -	0.3	230
8116	Myakka River bridge <53>		26 57.5	82 12.8	+1 16	+1 04	+2 09	- - -	0.5	- -	0.0	- -	0.5	304	0.0	- -	- -	- -
8121	Gasparilla Pass		26 48.74	82 16.86	-1 47	-1 26	-0 13	-1 03	1.0	0.8	0.0	- -	1.0	066	0.0	- -	1.1	236
8126	Venice Inlet		27 06.8	82 28.0	-2 37	-2 21	-1 35	-2 21	1.1	0.6	0.0	- -	1.1	087	0.0	- -	0.9	262
8131	Blackburn Bay, south end, bridge		27 07.4	82 28.2	-1 27	-1 33	-1 06	-0 32	0.9	0.5	0.0	- -	0.9	357	0.0	- -	0.7	180
8136	Little Sarasota Bay, south end, bridge		27 10.8	82 29.7	-1 51	-1 09	-0 35	-0 28	1.4	0.5	0.0	- -	1.4	167	0.0	- -	0.7	357
8141	Midnight Pass entrance		27 12.4	82 30.6	-2 15	-2 12	-1 27	-1 35	1.8	1.0	0.0	- -	1.8	061	0.0	- -	1.4	242
	SARASOTA BAY																	
8146	Big Sarasota Pass		27 18.0	82 33.8	-2 26	-2 02	-1 12	-2 25	1.5	0.7	0.0	- -	1.5	006	0.0	- -	1.0	183
8151	Sarasota Bay, south end, bridge		27 18.1	82 32.8	-1 57	-1 52	-0 51	-0 54	0.3	0.2	0.0	- -	0.3	196	0.0	- -	0.3	013
8156	New Pass		27 19.9	82 34.9	-2 38	-3 01	-0 56	-1 47	1.6	0.7	0.0	- -	1.6	046	0.0	- -	1.0	231
8161	Golden Gate Point, off		27 19.7	82 33.4	-2 10	-2 10	-1 03	-1 41	0.4	0.2	0.0	- -	0.4	344	0.0	- -	0.3	159
8166	Longboat Pass		27 26.5	82 41.4	-3 04	-2 55	-1 29	-2 18	1.8	1.1	0.0	- -	1.8	088	0.0	- -	1.6	267
8171	Cortez, north of bridge		27 28.2	82 41.6	-2 19	-1 23	-0 03	-1 33	0.6	0.1	0.0	- -	0.6	346	0.0	- -	0.1	162
	TAMPA BAY																	
8176	Egmont Key Light, 6.7 miles west of <45>		27 36.0	82 53.2	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
8181	Egmont Chan. (3 mi. W of Egmont Key Lt.)		27 36.5	82 49.1	-0 45	-0 41	-0 45	-0 51	0.5	0.5	0.0	- -	0.5	065	0.0	- -	0.7	260
8186	TAMPA BAY ENTRANCE (Egmont Channel)		27 36.53	82 46.08	Daily predictions						0.0	- -	1.0	100	0.0	- -	1.4	285
8191	Southwest Channel (S of Egmont Key)		27 34.17	82 45.78	-1 02	-0 59	-0 40	-0 57	0.7	0.6	0.0	- -	0.7	070	0.0	- -	0.9	260
8196	Mullet Key Channel entrance		27 36.27	82 43.43	-0 35	-0 14	-0 01	-0 14	1.1	0.8	0.0	- -	1.1	055	0.0	- -	1.1	255
8201	Passage Key Inlet (off Bean Pt.)		27 32.43	82 44.42	-1 35	-1 16	-0 57	-1 19	0.9	0.8	0.0	- -	0.9	095	0.0	- -	1.1	285
8206	McGill I., 3.1 miles west of		27 33.20	82 41.30	-0 12	-0 18	-0 29	-0 18	0.4	0.4	0.0	- -	0.4	065	0.0	- -	0.6	250
8211	McGill I., 1.1 miles northwest of		27 34.25	82 38.63	-1 00	-0 47	-0 12	-0 31	0.3	0.1	0.0	- -	0.3	035	0.0	- -	0.2	210
8216	Mullet Key Shoal Lt., 0.6 mile SW of		27 36.97	82 41.50	-0 27	+0 01	+0 01	+0 05	0.8	0.6	0.0	- -	0.8	045	0.0	- -	0.8	260
8221	Bunces Pass (West of Bayway bridge)		27 38.82	82 44.37	-1 19	-0 59	-0 45	-1 24	1.0	0.7	0.0	- -	1.0	125	0.0	- -	1.0	315
8226	Pine Key (Pinellas Bayway bridge)		27 41.55	82 43.03	-1 04	-0 42	-0 45	-1 22	0.4	0.6	0.0	- -	0.4	100	0.0	- -	0.8	280
8231	Cats Point (bridge west of)		27 42.50	82 43.48	-1 59	-2 54	-1 50	-1 45	0.6	0.5	0.0	- -	0.6	015	0.0	- -	0.7	150
8236	Sunshine Skyway Br., 0.2 mi. N of chan.		27 37.33	82 39.67	-0 11	-0 15	+0 11	+0 06	0.8	0.7	0.0	- -	0.8	060	0.0	- -	1.0	230
8241	Cut A & B, Channel Junction		27 38.33	82 37.53	-0 07	-0 06	+0 45	+0 24	1.0	0.7	0.0	- -	1.0	045	0.0	- -	1.0	225

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	TAMPA BAY Time meridian, 75°W				on TAMPA BAY ENTRANCE, p.112													
8246	Joe Island, 1.8 miles northwest of.....		27 36.75	82 37.50	-0 29	-0 20	-0 02	-0 24	0.7	0.6	0.0	- -	0.7	070	0.0	- -	0.9	245
8251	Harbor Key, 1.3 miles west of.....		27 36.67	82 35.67	-1 22	-1 09	-0 44	-1 00	0.3	0.3	0.0	- -	0.3	020	0.0	- -	0.4	160
	Pinellas Point																	
8256	2 miles southwest of.....		27 40.55	82 39.53	Current weak and variable													
8261	2.6 miles south of.....		27 39.65	82 38.50	-1 18	-0 36	+0 06	-0 56	0.8	0.6	0.0	- -	0.8	030	0.0	- -	0.9	210
8266	0.5 mile southeast of.....		27 41.82	82 37.95	-2 00	-1 32	-1 31	-1 19	0.3	0.2	0.0	- -	0.3	045	0.0	- -	0.3	220
8271	1.9 miles SE of.....		27 41.08	82 36.58	-0 03	-0 45	+0 16	-0 02	0.7	0.6	0.0	- -	0.7	020	0.0	- -	0.8	180
8276	3 miles southeast of.....		27 40.38	82 35.58	-0 03	+0 10	+0 42	+0 25	0.8	0.6	0.0	- -	0.8	025	0.0	- -	0.8	200
8281	Piney Point, 1.9 miles WNW of.....		27 39.03	82 35.72	-0 32	-0 08	+0 10	+0 09	0.7	0.5	0.0	- -	0.7	045	0.0	- -	0.7	225
8286	Piney Point, 0.6 mile NNW of.....		27 39.22	82 33.73	-0 20	-0 42	-0 23	-0 21	0.4	0.4	0.0	- -	0.4	355	0.0	- -	0.5	215
8291	Lewis Island, 0.9 mile east of.....		27 43.47	82 36.58	+0 27	-0 08	+0 19	+0 26	0.8	0.6	0.0	- -	0.8	005	0.0	- -	0.8	160
8296	Camp Key, 1.9 miles northwest of.....		27 42.47	82 33.00	+0 34	+0 10	+0 41	+0 24	0.7	0.5	0.0	- -	0.7	030	0.0	- -	0.7	220
8301	Shell Point, 1.1 miles west of.....		27 43.28	82 30.22	Current weak and variable						0.0	- -	0.3	065	0.0	- -	0.3	235
8306	Mangrove Point, 2.8 miles WSW of.....		27 44.17	82 31.92	-0 03	+0 30	+1 11	+0 34	0.7	0.4	0.0	- -	0.7	010	0.0	- -	0.6	200
8311	St. Petersburg (off C.G. airport).....		27 45.53	82 37.00	Current weak and variable						0.0	- -	0.3	015	0.0	- -	0.3	160
8316	Snell Isle, 1.8 miles east of.....		27 47.62	82 34.33	+1 01	+0 33	+0 35	+0 45	0.3	0.3	0.0	- -	0.3	350	0.0	- -	0.4	170
8321	Ross Island, 1 mile east of.....		27 49.9	82 34.2	+0 58	+1 08	+1 16	+1 12	0.9	0.5	0.0	- -	0.9	358	0.0	- -	0.7	179
8326	Port Tampa, 0.3 mi. W of RR. Terminal...		27 51.53	82 33.45	+0 36	+0 31	+0 56	+0 28	0.9	0.6	0.0	- -	0.9	030	0.0	- -	0.9	215
8331	Gandy Bridge, west channel.....		27 52.75	82 34.83	+0 32	-0 15	+0 29	+0 12	0.9	0.6	0.0	- -	0.9	000	0.0	- -	0.8	155
8336	Gandy Bridge, east channel.....		27 53.17	82 33.08	+0 53	+0 34	+0 51	+1 10	0.5	0.4	0.0	- -	0.5	015	0.0	- -	0.5	170
8341	W Howard Frankland Bridge.....		27 55.55	82 35.17	+0 42	+1 01	+1 12	+1 01	0.3	0.1	0.0	- -	0.3	285	0.0	- -	0.2	140
8346	Courtney Campbell Parkway.....		27 58.08	82 37.45	+1 00	+0 37	+0 49	+1 01	0.5	0.4	0.0	- -	0.5	340	0.0	- -	0.6	140
8351	Gadsden Point, 3.5 miles southwest of...		27 46.93	82 31.42	Current weak and variable						0.0	- -	0.3	005	0.0	- -	0.1	210
8356	Gadsden Point, 1.3 miles southeast of...		27 48.75	82 27.00	+0 06	-0 16	+0 47	+0 44	0.4	0.1	0.0	- -	0.4	035	0.0	- -	0.2	210
8361	Catfish Point, 1.3 miles east of.....		27 50.67	82 26.72	+0 25	+0 12	+0 25	+0 40	0.4	0.1	0.0	- -	0.4	020	0.0	- -	0.1	175
8366	Alafia River ent., 1.2 miles west of....		27 50.97	82 25.28	Current weak and variable						0.0	- -	0.2	060	0.0	- -	0.2	215
	BOCA CIEGA BAY and ST. JOSEPH SOUND																	
8371	Pass-a-Grille Channel.....		27 41.1	82 44.1	-0 45	-0 56	-0 45	-0 39	1.2	1.0	0.0	- -	1.2	357	0.0	- -	1.4	186
8376	Bridge, 0.8 mi. south of Maximo Pt. <47>		27 41.6	82 40.8	-1 35	-1 35	-1 35	-1 12	1.2	0.6	0.0	- -	1.2	078	0.0	- -	1.4	255
8381	Gulfport, south of.....		27 43.7	82 42.4	Current weak and variable													
8386	Blind Pass (north end).....		27 45.4	82 45.7	-1 35	-1 38	-1 35	-1 34	0.6	0.3	0.0	- -	0.6	000	0.0	- -	0.4	180
8391	Treasure Island Causeway.....		27 46.2	82 45.3	Current weak and variable													
8396	Johns Pass <46>.....		27 47.0	82 46.9	-1 45	-1 41	-1 45	-1 51			0.0	- -	2.0	044	0.0	- -	1.5	214
8401	Treasure Island, 3.5 miles southwest of.		27 45.0	82 50.0	Current weak and variable													
8406	The Narrows (Indian Rocks Beach Br.)....		27 52.6	82 51.0	-0 55	-0 38	-0 55	-1 16	0.5	0.2	0.0	- -	0.6	180	0.0	- -	0.2	000
8411	Clearwater Pass, 0.2 mi. NE of Sand Key.		27 57.4	82 49.4	-2 56	-3 02	-1 56	-2 12	1.3	0.8	0.0	- -	1.3	179	0.0	- -	1.1	348
8416	St. Joseph Sound, off.....		28 05.0	82 55.0	- - -	- - -	- - -	- - -	- -	- -	0.0	- -	0.4	018	0.0	- -	0.6	195
					on MIAMI HARBOR ENTRANCE, p.100													
8421	Anclote Anchorage.....		28 10.0	82 49.8	+2 58	+2 43	+2 42	+2 23	0.3	0.5	0.0	- -	0.6	006	0.0	- -	0.8	195
	APALACHEE BAY				on TAMPA BAY ENTRANCE, p.112													
8426	St. Marks River approach.....		30 02.8	84 10.8	-1 29	-0 59	+0 12	-0 30	0.6	0.4	0.0	- -	0.6	339	0.0	- -	0.5	170
8431	Four Mile Point, St. Marks River.....		30 06.7	84 12.2	-0 45	-0 27	+0 46	-0 48	0.4	0.3	0.0	- -	0.4	358	0.0	- -	0.4	187

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	APALACHEE BAY Time meridian, 75°W				on TAMPA BAY ENTRANCE, p.112									
8436	St. Marks, St. Marks River.....		30 09.3	84 12.1	+1 06	+0 51	-0 01	+0 01	0.3	0.3	0.0 - -	0.3 067	0.0 - -	0.4 247
	PENSACOLA BAY Time meridian, 90°W				on MOBILE BAY ENTRANCE, p.118									
8441	Pensacola Bay entrance, midchannel.....		30 20.1	87 18.0	-0 48	-0 31	+0 18	-1 15	1.1	1.2	0.0 - -	1.6 074	0.0 - -	1.8 256
	MOBILE BAY													
8446	Main Ship Channel entrance.....		30 09.2	88 03.2	- - -	+0 50	- - -	+0 50	0.5	0.7	- - - -	0.7 344	0.0 175	1.0 182
8451	MOBILE BAY ENTRANCE (off Mobile Point)..		30 13.6	88 02.1	Daily predictions						0.0 - -	1.4 027	0.0 - -	1.5 190
8456	Channel, 6 miles N of Mobile Point.....		30 19.8	88 01.7	+0 15	+1 16	+1 26	+0 43	0.4	0.3	0.0 - -	0.6 032	0.0 - -	0.5 208
8461	Great Point Clear, channel west of.....		30 29.4	88 01.1	Current weak and variable									
8466	Mobile River entrance.....		30 40.2	88 02.0	+5 36	+4 54	+2 44	+2 45	0.2	0.5	0.0 - -	0.3 333	0.0 - -	0.7 151
8471	Tensaw River entrance (bridge).....		30 40.9	88 00.7	+2 04	+1 35	-1 00	-0 21	0.3	0.7	0.0 - -	0.4 029	0.0 - -	1.0 222
	Pass Aux Herons													
8476	Entrance to Mississippi Sound <48>...		30 17.3	88 07.8	+0 09	+0 15	+0 22	+0 02	0.9	0.9	0.0 - -	1.3 068	0.0 - -	1.3 245
	MISSISSIPPI SOUND													
8481	Pascagoula River highway bridge <27>....		30 22.3	88 33.8	- - -	+0 48	- - -	-1 02	0.9	0.8	0.0 - -	1.2 016	0.0 - -	1.2 201
	LOUISIANA COAST													
8486	Quatre Bayoux Pass, Barataria Bay.....		29 18.6	89 51.1	+1 37	+1 04	+0 43	+0 06	0.9	0.9	0.0 - -	1.2 288	0.0 - -	1.3 103
8491	Pass Abel, Barataria Bay.....		29 17.7	89 54.2	+0 53	+1 00	+0 13	-0 03	0.6	1.1	0.0 - -	0.9 317	0.0 - -	1.6 143
8496	Barataria Pass, Barataria Bay.....		29 16.3	89 56.9	+2 29	+1 23	+1 01	+0 19	1.1	0.9	0.0 - -	1.5 315	0.0 - -	1.3 120
8501	Barataria Bay, 1.1 mi. NE of Manilla....		29 26.2	89 57.6	+4 41	+3 35	+3 10	+4 12	0.3	0.3	0.0 - -	0.4 356	0.0 - -	0.5 160
8506	Caminada Pass, Barataria Bay.....		29 11.9	90 02.8	+1 44	+0 03	+0 56	+0 38	1.1	1.0	0.0 - -	1.5 297	0.0 - -	1.5 118
8511	Seabrook Bridge, New Orleans <1>.....		30 01.9	90 02.1	- - -	+7 37	- - -	+7 57	0.9	0.6	0.0 - -	1.2 350	0.0 - -	0.9 170
					on GALVESTON BAY ENTRANCE, p.124									
8516	Cat Island Pass, Terrebonne Bay.....		29 04.8	90 34.4	-2 45	-1 25	-2 40	-3 40	0.6	0.6	0.0 - -	1.1 013	0.0 - -	1.5 195
8521	Wine Island Pass.....		29 04.2	90 38.0	-4 46	-4 31	-5 13	-4 58	1.0	0.8	0.0 - -	1.7 325	0.0 - -	1.9 160
8526	Caillou Boca, Caillou Bay.....		29 03.5	90 48.5	-0 46	-0 09	+1 24	-0 46	0.8	0.3	0.0 - -	1.3 095	0.0 - -	0.7 264
8531	Calcasieu Pass.....		29 46.4	93 20.7	-0 18	-0 43	+2 12	-0 44	1.0	1.0	0.0 - -	1.7 020	0.0 - -	2.3 205
8536	Calcasieu Pass, 35 miles south of.....		29 10.15	93 19.23	Current weak and variable									
8541	Calcasieu Pass, 67 miles south of <49)..		28 39.80	93 19.95	- - -	- - -	- - -	- - -	- -	- -	- - - -	- - - -	- - - -	- - - -
	TEXAS													
	Sabine Pass													
8546	Texas Point, 1.7 miles SSE of.....		29 39.0	93 49.6	-0 14	-0 34	-0 15	-0 21	0.6	0.7	0.0 - -	1.1 335	0.0 - -	1.6 145
8551	Sabine, channel east of.....		29 43.3	93 51.7	-0 15	-0 02	-0 15	+0 04	0.9	0.7	0.0 - -	1.6 335	0.0 - -	1.7 140
8556	Port Arthur Canal entrance.....		29 45.6	93 54.1	+0 53	+1 34	+0 55	+1 12	0.5	0.6	0.0 - -	0.9 310	0.0 - -	1.3 110
8561	Mesquite Pt., La. Causeway bridge....		29 45.95	93 53.70	-0 21	-0 22	-0 20	-0 35	0.9	1.0	0.0 - -	1.6 330	0.0 - -	2.2 150

Endnotes can be found at the end of Table 2.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.
	GALVESTON BAY Time meridian, 90°W				on GALVESTON BAY ENTRANCE, p.124											
8566	GALVESTON BAY ENT. (between jetties)....		29 20.8	94 42.3	Daily predictions						0.0	- -	1.7	299	0.0	- -	2.3	102
8571	Bolivar Roads, 0.5 mi. N of Ft. Point...		29 20.8	94 46.1	+0 25	+0 26	+1 15	+0 14	1.0	0.8	0.0	- -	1.7	287	0.0	- -	1.8	111
8576	Quarantine Station, 0.3 mile S of <27>..		29 19.8	94 46.7	- - -	-1 21	- - -	-0 59	0.6	0.4	0.0	- -	1.1	196	0.0	- -	0.8	009
8581	Galveston Channel, west end <27>.....		29 18.6	94 49.2	- - -	+0 01	- - -	-0 17	1.0	0.6	0.0	- -	1.7	272	0.0	- -	1.5	103
8586	Galveston Causeway RR. bridge.....		29 17.80	94 53.13	-0 24	-0 32	- - -	+0 05	0.4	0.4	0.0	- -	0.7	210	0.0	- -	0.8	025
8591	Houston Channel, W of Port Bolivar.....		29 21.8	94 47.8	+0 18	+0 35	+1 18	+0 24	0.8	0.6	0.0	- -	1.3	330	0.0	- -	1.4	166
8596	Houston Ship Channel (Red Fish Bar).....		29 30.2	94 52.5	+3 11	+1 51	+0 12	+1 29	0.8	0.8	0.0	- -	1.3	321	0.0	- -	1.8	146
	TEXAS COAST																	
8601	Matagorda Channel (entrance jetty).....		28 25.3	96 19.4	-0 56	-0 28	-0 18	-1 14	1.2	0.8	0.0	- -	2.0	317	0.0	- -	1.9	142
8606	Aransas Pass.....		27 50.1	97 02.65	+0 34	+1 03	+0 50	-0 08	0.5	0.5	0.0	- -	0.9	312	0.0	- -	1.2	116
8611	Sabine Bank <54>.....		29 18.20	94 00.20	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
8616	Heald Bank, 28 miles SSE of <54>.....		28 40.17	93 59.60	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
	PUERTO RICO Time meridian, 60°W				on VIEQUES PASSAGE, p.130											
8621	Punta Ostiones, 1.5 miles west of.....		18 05.2	67 13.6	-0 26	-0 52	-0 04	-0 35	1.7	1.3	0.0	- -	1.0	187	0.0	- -	0.9	001
8626	VIEQUES PASSAGE.....		18 11.3	65 37.1	Daily predictions						0.0	- -	0.6	250	0.0	- -	0.7	057
8631	Vieques Sound.....		18 15.87	65 34.20	-0 44	-1 16	-1 28	-1 05	0.7	0.9	0.0	- -	0.4	180	0.0	- -	0.6	355
8636	Largo Shoals, west of.....		18 19	65 35	-0 52	-1 28	-1 33	-1 08	0.7	1.0	0.0	- -	0.4	185	0.0	- -	0.7	330
8641	Ramos Cay, 0.3 mile SE of <1>.....		18 18.6	65 36.4	- - -	-0 42	- - -	-0 44	0.3	0.1	0.0	- -	0.2	120	0.0	- -	0.1	284
8646	Palominos Island, 0.9 mile SW of <13>...		18 20.1	65 34.8	- - -	- - -	- - -	-0 48	- -	0.7	- -	- -	- -	- -	- -	- -	0.5	307
8651	Fajardo Harbor (channel).....		18 20	65 37	-1 13	-1 52	-2 27	-1 45	0.5	1.6	0.0	- -	0.3	162	0.0	- -	1.1	339
8656	Isla Marina, 0.2 mile west of <1> <13>..		18 20.50	65 37.38	- - -	- - -	- - -	-2 06	- -	1.0	- -	- -	- -	- -	- -	- -	0.7	335
8661	Coronala Laja, 0.4 mile NW of <1> <13>..		18 21.6	65 37.3	- - -	- - -	- - -	-1 33	- -	0.4	- -	- -	- -	- -	- -	- -	0.3	000
8666	Pasaje de San Juan <1> <13>.....		18 23.9	65 36.9	- - -	- - -	- - -	-1 15	- -	1.7	- -	- -	- -	- -	- -	- -	1.2	310
8671	Bahia de San Juan.....		18 27.23	66 06.6	Current weak and variable											
8676	Bahia de San Juan entrance <50>.....		18 28.3	66 07.6	- - -	- - -	- - -	- - -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Endnotes can be found at the end of Table 2.

< 1> The times of minimum before flood and ebb are indefinite.

< 2> Current speeds up to 9.0 knots have been observed in the vicinity of the Boilers.

< 3> Current turns westward just before the end of the flood.

< 4> Current tends to rotate counterclockwise, flood direction swinging from westward to southward.

< 5> Observations indicate that current floods about 11 hours and ebbs about 1 1/2 hours. Minimum before flood occurs about 4 1/2 hours earlier, maximum flood about 1 hour later, minimum before ebb about 1/2 hour later, and maximum ebb about 1 1/2 hours earlier than corresponding predictions at Portsmouth Harbor Entrance. Average ebb speed is less than 0.5 knot.

< 6> Current is variable; current speeds are usually less than 1 knot. Currents are strong in the entrance to Menemsha Pond.

< 7> In the open waters of Buzzards Bay, except in the entrance and off Penikese Island and West Island (see table-2, no. 1080-1190), the current is too weak and variable to be predicted.

< 8> The currents in Narragansett Bay have a pronounced irregularity which is evidenced at times during the month by a long period of approximate slack water preceding the flood, and at other times by a double flood of two distinct maximums of speed seperated by a period of lesser speed. These peculiarities appear to be somewhat unstable, consequently, flood currents differing from those predicted should be expected. The ebb current is fairly regular and the predictions for maximum ebb will usually agree closely with the current encountered.

< 9> At minimum flood, current sometimes ebbs for a short period.

<10> At minimum flood, current frequently ebbs for a short period.

<11> Flood is too weak to be predicted. Time difference gives mid-point of 4 hour stand of weak and variable current and time of maximum ebb.

<12> Inside breakwaters, in channel, the current is only 0.4 knot.

<13> Current seldom floods.

<14> Near Tongue Point, Bridgeport Harbor, the current is weak and irregular.

<15> The current on the Manhattan side of the channel is about 0.5 knot stronger, and on the Brooklyn side about 0.5 knot weaker, than at this station.

<16> The ebb or northerly current is weak and variable. East of the channel the current flows southward practically all the time, but with changing speed, the maximum speed being about the same as in mid-channel and occuring about the same time. On the Manhattan side, just off the piers, the flood or southerly current is weak and variable but the ebb or northerly current has an average maximum speed of about 2 knots which occurs about the time of maximum ebb at Hell Gate.

<17> Tidal current is weak, averaging about 0.1 knot at maximum.

<18> For maximum southward current only, the gates of the lock being closed to prevent northward flow. Apply difference and ratio to maximum ebb at The Narrows.

<19> Current is rotary, turning clockwise. Minimum current of 0.9 knot sets southwest about time of "Minimum before flood" at The Narrows. Minimum current of 0.5 knot sets northeast about 1 hour before "Minimum before ebb" at The Narrows.

<20> The values for the Hudson River are for the summer months, when the freshwater discharge is a minimum.

<21> In Roundout Creek entrance between lights, eddies on the flood make navigation difficult. Litle difficulty will be experienced on the ebb.

<22> Current does not flood.

<23> Current is rotary, turning clockwise. It flows northwest at times of "Minimum before flood" at The Narrows; northeast 1 hour after maximum flood; southeast 1 1/2 hours after "Minimum before ebb"; and southwest 2 hours after maximum ebb.

<24> Current is rotary, turning clockwise. Minimum current of 0.2 knot sets west about the time of "Minimum before flood" at The Narrows. Minimum current of 0.2 knot sets ENE about the time of "Minimum before ebb" at The Narrows.

<25> In Sandy Hook Bay (except in southern extremity) the current is weak.

<26> Tidal current is weak and rotary, averaging about 0.1 knot at maximum.

<27> The times of minimum before flood and ebb are variable.

<28> Current usually ebbs during period 3 hours before to 3 hours after maximum ebb. Flood is weak and variable.

<29> To obtain speeds in midchannel use speed ratio 0.8.

<30> Flood is usually weak and of short duration. A weak ebb or flood current occurs about 6 hours after maximum flood at Delaware Bay Entrance.

<31> Tidal current is weak and rotary, averaging less than 0.1 knot.

<32> Current tends to rotate clockwise. At times for "Minimum before flood" there may be a weak current flowing southward while at times for "Minimum before ebb" there may be a weak current flowing northward.

<33> Just off southernmost point, current turns about 1 hour earlier than in midchannel.

<34> Current tends to rotate clockwise. At times for "Minimum before flood" there may be a weak current flowing WSW while at times for "Minimum before ebb" there may be a weak current flowing ENE.

<36> Current tends to rotate clockwise. At times for "Minimum before flood" there may be a weak current flowing southwest, while at times for "Minimum before ebb" there may be a weak current flowing north.

<37> Flood usually flows northward, however, direction is variable.

<38> The combination of currents from Stono River and North Edisto River in the vicinity of the Southern S.A.L. Ry. bridge produces eight changes a day in direction of flow instead of the usual four. Approximate times of the minimums are as follows: current turns south about 2h 50m before flood begins and 3h 00m before ebb begins at Charleston Harbor; current north about 1h 10m after flood begins and 20 minutes before ebb begins at Charleston Harbor. Caution is advised when running north with a fair current as a cross current from the old channel of the Stono River is encountered at the south approach to the bridge.

<39> Flood is variable, current sometimes changing to ebb for a short time during the flood period.

<40> Due to changes in the waterway average speed values given are probably too large.

<41> Flood usually occurs in a southerly direction and the ebb in a northeastwardly direction.

<42> Flood is weak and variable.

<43> Current tends to rotate clockwise. At times for "Minimum before flood" there may be a weak current flowing northward while at times for "Minimum before ebb" there may be a weak current flowing southeastward.

<44> For greater ebb only.

<45> Tidal current is rotary, turning clockwise, with an average speed of about 0.3 knot.

<46> The strength of flood is usually about 2 knots. The speed ratio for strength of ebb is 0.8, except for an ebb speed at Tampa Bay entrance less than 1 knot or marked with an asterisk. In this case take the ebb speed at Johns Pass to be about 1 knot.

<47> For greater ebb. Lesser ebb is almost equal to greater ebb.

<48> Currents are materially affected by winds.

<49> Current is weak and variable. Current is somewhat rotary turning clockwise.

<50> Current is normally weak and variable, but winds may cause heavy swells.

<51> Minimum ebb is extremely weak, possibly flooding for a short period.

<52> Every other ebb phase exhibits a double ebb pattern. For single ebb phases use time differences and speed ratios of the first ebb.

<53> Ebb is weak and variable.

<54> Current is somewhat rotary, speed seldom exceeds 0.3 knot.

<55> Flood is weak and variable with speeds less than or equal to 0.2 knot. Minimums are indefinite.

<56> Turbulence with hazardous current speeds of 6 to 7 knots have been reported near the bridges in the canal. Extreme caution should be exercised.

<57> Diamond Island Pass - Ebb current is very weak, averaging less than 0.1 knot.

<58> During period observed, the current flow was nearly continuously in a southwesterly direction with an average speed of about 0.4 knot.

<59> Observations during the spring showed an increase of about 0.4 knots in both the flood and ebb directions.

<60> Observations were made in the summer months when the freshwater discharge was at a minimum. Periods of heavier discharge will increase ebb current speeds and decrease flood current speeds.

<61> Observations were made in the spring during period of heavy freshwater discharge. Periods of lesser discharge will decrease ebb current speeds and increase flood current speeds.

<62> Observations at this location showed long periods of minimum currents and short durations of flood and ebb currents.

<63> Turbulence with hazardous current speeds of 6 to 7 knots have been reported near the bridges in the canal. Extreme caution should be exercised.

<64> The time of minimum before flood is indefinite.

<65> Maximum ebb time difference is for middle of phase. Speed near 0.7 knots throughout most of ebb phase. Speeds a short distance away may vary significantly.

<66> Maximum flood time difference is for middle of phase. Speed is very low throughout most of flood phase.

<67> Values may vary significantly a short distance away.

<68> It has been reported that under conditions of extreme river discharge, the currents can reach 7 or 8 knots. Caution should be exercised when docking and undocking vessels.

CAUTION--During the first 2 hours of flood in channel north of Governers Island the current in Hudson River is still ebbing while during the first 1 1/2 hours of ebb in this channel the current in Hudson River is still flooding. (See Tidal Current Charts, New York Harbor.) At such times special care must be taken by large ships in navigating this channel.

Station No.	Depth (ft.)	Half-hourly time increments																								
		0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
		(after Maximum Flood at BAY OF FUNDY ENTRANCE)†																									
†201	14	0.13	0.19	0.19	0.19	0.20	0.19	0.17	0.14	0.16	0.16	0.18	0.16	0.20	0.19	0.15	0.12	0.12	0.15	0.19	0.20	0.23	0.22	0.21	0.19	0.18	knots
		106	317	298	295	340	125	133	133	198	198	184	194	174	142	121	086	084	090	054	065	036	057	083	083	070	degrees
†216	14	0.23	0.23	0.20	0.20	0.21	0.25	0.31	0.31	0.29	0.26	0.27	0.23	0.22	0.23	0.23	0.22	0.24	0.23	0.20	0.25	0.24	0.23	0.24	0.23	0.22	knots
		296	291	278	288	281	288	283	277	256	260	254	230	237	223	200	207	198	173	171	117	088	086	087	049	032	degrees
†231	14	0.39	0.35	0.36	0.37	0.39	0.33	0.35	0.31	0.29	0.29	0.30	0.33	0.38	0.36	0.36	0.38	0.37	0.32	0.27	0.26	0.27	0.26	0.24	0.25	0.31	knots
		029	037	040	035	313	297	296	281	275	155	141	182	163	141	171	170	172	150	034	043	038	032	035	027	032	degrees
†276	14	0.30	0.27	0.29	0.25	0.22	0.31	0.32	0.29	0.31	0.32	0.32	0.42	0.43	0.42	0.42	0.29	0.25	0.23	0.24	0.23	0.25	0.24	0.20	0.24	0.26	knots
		342	355	348	336	336	329	348	234	210	205	205	194	188	178	177	166	139	116	090	078	069	068	063	060	353	degrees
†461	14	0.33	0.26	0.19	0.16	0.17	0.16	0.18	0.24	0.28	0.26	0.23	0.21	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.25	0.28	0.30	0.32	0.33	0.42	knots
		044	065	088	135	171	246	244	252	235	198	204	198	329	293	294	302	308	317	312	347	022	033	037	038	035	degrees
		(after Minimum before Flood at BOSTON HARBOR)																									
991	10	0.03	0.22	0.23	0.24	0.23	0.26	0.25	0.27	0.32	0.33	0.33	0.32	0.31	0.28	0.29	0.28	0.27	0.27	0.28	0.27	0.26	0.27	0.23	0.21	0.21	knots
		265	266	265	268	270	268	282	303	319	327	333	340	357	025	067	068	070	074	073	080	076	079	073	073	051	degrees
996	10	0.30	0.40	0.45	0.43	0.46	0.48	0.50	0.53	0.51	0.52	0.50	0.51	0.51	0.52	0.49	0.50	0.48	0.52	0.49	0.46	0.46	0.43	0.40	0.40	0.36	knots
		210	261	258	247	248	247	262	280	280	304	340	345	009	044	049	061	068	070	074	079	082	081	090	081	123	degrees
1001	10	0.29	0.30	0.30	0.31	0.32	0.34	0.34	0.35	0.37	0.36	0.35	0.35	0.34	0.34	0.34	0.35	0.34	0.36	0.35	0.34	0.36	0.35	0.34	0.32	0.18	knots
		200	209	212	222	229	243	247	259	265	268	284	331	002	018	042	056	058	064	065	075	080	085	086	095	132	degrees
1006	10	0.50	0.49	0.52	0.55	0.56	0.57	0.54	0.53	0.55	0.54	0.55	0.55	0.52	0.50	0.52	0.50	0.49	0.51	0.51	0.51	0.50	0.51	0.49	0.50	0.49	knots
		138	140	220	243	284	260	252	241	250	244	240	228	211	160	078	062	081	093	085	093	091	087	095	116	130	degrees
1011	10	0.20	0.20	0.21	0.22	0.24	0.23	0.25	0.25	0.26	0.24	0.26	0.25	0.24	0.24	0.23	0.24	0.23	0.22	0.21	0.21	0.21	0.20	0.20	0.20	0.20	knots
		306	342	340	244	228	232	223	232	200	210	216	271	290	351	357	051	059	048	045	028	037	052	028	035	011	degrees
1016	10	0.42	0.44	0.43	0.45	0.46	0.46	0.46	0.47	0.48	0.48	0.49	0.46	0.48	0.30	0.50	0.50	0.49	0.48	0.47	0.47	0.47	0.47	0.45	0.42	0.41	knots
		221	223	214	221	213	211	215	219	219	227	235	230	221	254	019	015	009	357	052	053	055	070	135	193	206	degrees

Tabular values are mean current speeds and directions at specific time intervals relative to the reference stations.
† Add any incremental time difference to a time of maximum flood, then subtract one hour from the result to correct to the standard time kept at the subordinate station.

ROTARY TIDAL CURRENTS

Station No.	Depth (ft.)	Half-hourly time increments 0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
		(after Minimum before Flood at BOSTON HARBOR)																									
1021	10	0.42	0.44	0.45	0.45	0.47	0.50	0.46	0.47	0.45	0.44	0.44	0.40	0.45	0.47	0.44	0.44	0.47	0.44	0.42	0.42	0.43	0.47	0.40	0.43	0.45	knots
		213	197	193	182	175	135	178	183	222	247	267	306	330	346	328	344	335	327	334	341	337	338	306	274	240	degrees
1051	15	0.11	0.26	0.51	0.53	0.55	0.52	0.50	0.54	0.47	0.50	0.46	0.45	0.46	0.45	0.48	0.51	0.57	0.62	0.66	0.67	0.64	0.62	0.51	0.40	0.25	knots
		191	292	295	304	303	312	308	319	313	331	354	358	010	030	046	059	089	108	109	122	121	119	132	129	134	degrees
1056	10	0.30	0.30	0.38	0.39	0.38	0.36	0.37	0.37	0.36	0.36	0.35	0.34	0.30	0.20	0.19	0.25	0.30	0.33	0.35	0.36	0.38	0.38	0.36	0.36	0.32	knots
		251	307	331	342	332	336	343	341	343	350	347	006	029	081	144	138	146	160	165	172	173	173	190	203	233	degrees
1156	10	0.34	0.39	0.41	0.42	0.35	0.35	0.34	0.37	0.39	0.38	0.35	0.35	0.32	0.32	0.36	0.40	0.41	0.35	0.31	0.32	0.31	0.27	0.07	0.20	0.25	knots
		267	264	261	261	259	251	235	230	220	209	199	197	146	087	069	070	071	046	030	018	024	046	024	269	272	degrees
1226	10	0.33	0.35	0.36	0.35	0.36	0.34	0.40	0.39	0.40	0.42	0.45	0.37	0.35	0.32	0.35	0.37	0.34	0.33	0.35	0.35	0.34	0.03	0.29	0.31	0.24	knots
		007	010	024	034	060	343	348	007	063	025	095	064	081	103	102	103	104	117	135	139	158	215	339	353	355	degrees
*1286	10	0.17	0.16	0.18	0.16	0.13	0.17	0.19	0.21	0.22	0.18	0.19	0.21	0.18	0.22	0.25	0.24	0.26	0.27	0.28	0.28	0.29	0.28	0.25	0.23	0.18	knots
		086	095	090	088	090	095	090	093	083	083	081	077	082	072	072	070	069	067	070	070	073	077	085	082	085	degrees
1416	10	0.22	0.27	0.29	0.09	0.37	0.40	0.44	0.45	0.44	0.44	0.44	0.48	0.50	0.51	0.47	0.42	0.39	0.37	0.37	0.37	0.36	0.32	0.30	0.23	0.10	knots
		217	199	209	199	052	061	074	077	066	047	032	025	029	041	061	077	082	076	071	070	070	064	069	070	085	degrees
1416	20	0.15	0.22	0.24	0.05	0.28	0.30	0.31	0.36	0.34	0.33	0.35	0.36	0.40	0.43	0.39	0.30	0.28	0.34	0.35	0.34	0.32	0.29	0.23	0.16	0.09	knots
		271	238	231	251	030	031	076	073	064	040	029	021	021	030	049	067	067	058	056	050	050	047	044	032	005	degrees
1541	10	0.20	0.23	0.27	0.45	0.41	0.40	0.35	0.30	0.28	0.32	0.34	0.35	0.33	0.29	0.29	0.32	0.33	0.33	0.33	0.32	0.32	0.30	0.26	0.24	0.24	knots
		246	232	282	351	019	025	024	009	355	343	338	339	345	007	013	008	002	356	345	336	333	331	331	320	305	degrees
1541	20	0.15	0.19	0.20	0.33	0.34	0.30	0.24	0.21	0.22	0.28	0.31	0.33	0.32	0.29	0.26	0.27	0.28	0.29	0.31	0.29	0.26	0.21	0.17	0.14	0.10	knots
		220	214	232	001	020	027	024	003	345	340	333	332	331	351	009	008	003	350	339	334	329	322	322	315	254	degrees
		(after Maximum Flood at CHESAPEAKE BAY ENTRANCE)																									
4711	16d	0.31	0.30	0.26	0.25	0.24	0.23	0.24	0.22	0.22	0.21	0.22	0.19	0.18	0.15	0.10	0.08	0.09	0.13	0.13	0.18	0.20	0.27	0.29	0.32	0.34	knots
		197	204	217	226	242	253	266	273	290	302	311	318	330	344	358	042	073	089	113	133	152	171	179	185	189	degrees

Tabular values are mean current speeds and directions at specific time intervals relative to the reference station.
* In Reserved Channel, the tidal current is weak, averaging less than 0.1 knot. During a 7-day observation period, the total current set was consistently eastward.

TABLE 3.—SPEED OF CURRENT AT ANY TIME

EXPLANATION

Though the predictions in this publication give only the slacks and maximum currents, the speed of the current at any intermediate time can be obtained approximately by the use of this table. Directions for its use are given below the table.

Before using the table for a place listed in Table 2, the predictions for the day in question should be first obtained by means of the differences and ratios given in Table 2.

The examples below follow the numbered steps in the directions.

Example 1.—Find the speed of the current in The Race at 6:00 on a day when the predictions which immediately precede and follow 6:00 are as follows:

(1)	Slack Water	Maximum (Flood)	
	Time	Time	Speed
	4:18	7:36	3.2 knots

Directions under the table indicate A is to be used for this station.

(2) Interval between slack and maximum flood is 7:36 – 4:18 = 3^h18^m. Column heading nearest to 3^h18^m is 3^h20^m.

(3) Interval between slack and time desired is 6:00 – 4:18 = 1^h42^m. Line labeled 1^h40^m is nearest to 1^h42^m.

(4) Factor in column 3^h20^m and on line 1^h40^m is 0.7. The above flood speed of 3.2 knots multiplied by 0.7 gives a flood speed of 2.24 knots (or 2.2 knots, since one decimal is sufficient) for the time desired.

Example 2.—Find the speed of the current in the Harlem River at Broadway Bridge at 16:30 on a day when the predictions (obtained using the difference and ratio in table 2) which immediately precede and follow 16:30 are as follows:

(1)	Maximum (Ebb)		Slack Water
	Time	Speed	Time
	13:49	2.5 knots	17:25

Directions under the table indicate table B is to be used, since this station in Table 2 is referred to Hell Gate.

(2) Interval between slack and maximum ebb is 17:25 – 13:49 = 3^h36^m. Hence, use column headed 3^h40^m.

(3) Interval between slack and time desired is 17:25 – 16:30 = 0^h55^m. Hence, use line labeled 1^h00^m.

(4) Factor in column 3^h40^m and on line 1^h00^m is 0.5. The above ebb speed of 2.5 knots multiplied by 0.5 gives an ebb speed of 1.2 knots for the desired time.

When the interval between slack and maximum current is greater than 5^h40^m, enter the table with one-half the interval between slack and maximum current and one-half the interval between slack and the desired time and use the factor thus found.

TABLE 3.—SPEED OF CURRENT AT ANY TIME

TABLE A

Interval between slack and desired time	Interval between slack and maximum current													
	h. m. 1 20	h. m. 1 40	h. m. 2 00	h. m. 2 20	h. m. 2 40	h. m. 3 00	h. m. 3 20	h. m. 3 40	h. m. 4 00	h. m. 4 20	h. m. 4 40	h. m. 5 00	h. m. 5 20	h. m. 5 40
h. m.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.
0 20	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0 40	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
1 00	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 20	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
1 40	.....	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4
2 00	.....	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5
2 20	.....	.....	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6
2 40	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.9
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0
5 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0
5 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0
5 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0

TABLE B

Interval between slack and desired time	Interval between slack and maximum current													
	h. m. 1 20	h. m. 1 40	h. m. 2 00	h. m. 2 20	h. m. 2 40	h. m. 3 00	h. m. 3 20	h. m. 3 40	h. m. 4 00	h. m. 4 20	h. m. 4 40	h. m. 5 00	h. m. 5 20	h. m. 5 40
h. m.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.
0 20	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
0 40	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 00	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
1 20	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5
1 40	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6
2 00	.....	.....	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6
2 20	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7
2 40	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0
5 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0
5 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0
5 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0

Use table A for all places except those listed below for table B.
Use table B for Cape Cod Canal, Hell Gate, Chesapeake and Delaware Canal and all stations in table 2 which are referred to them.

1. From predictions find the time of slack water and the time and velocity of maximum current (flood or ebb), one of which is immediately before and the other after the time for which the velocity is desired.
2. Find the interval of time between the above slack and maximum current, and enter the top of table A or B with the interval which most nearly agrees with this value.
3. Find the interval of time between the above slack and the time desired, and enter the side of table A or B with the interval which most nearly agrees with this value.
4. Find, in the table, the factor corresponding to the above two intervals, and multiply the maximum velocity by this factor. The result will be the approximate velocity at the time desired.

TABLE 4.—DURATION OF SLACK

The predicted times of slack water given in this publication indicate the instant of zero speed, which is only momentary. There is a period each side of slack water, however, during which the current is so weak that for practical purposes it may be considered negligible.

The following tables give, for various maximum currents, the approximate period of time during which weak currents not exceeding 0.1 to 0.5 knot will be encountered. This duration includes the last of the flood or ebb and the beginning of the following ebb or flood, that is, half of the duration will be before and half after the time of slack water.

Table A should be used for all places except those listed below for table B.

Table B should be used for Cape Cod Canal, Hell Gate, Chesapeake and Delaware Canal, and all stations in Table 2 which are referred to them.

Duration of weak current near time of slack water

TABLE A

Maximum current	*Period with a speed not more than-*				
	0.1 knot	*0.2 knot*	*0.3 knot*	*0.4 knot*	*0.5 knot*
KNOTS	*MINUTES*	*MINUTES*	*MINUTES*	*MINUTES*	*MINUTES*
1.0	23	46	70	94	120
1.5	15	31	46	62	78
2.0	11	23	35	46	58
3.0	8	15	23	31	38
4.0	6	11	17	23	29
5.0	5	9	14	18	23
6.0	4	8	11	15	19
7.0	3	7	10	13	16
8.0	3	6	9	11	14
9.0	3	5	8	10	13
10.0	2	5	7	9	11

TABLE B

Maximum current	*Period with a speed not more than-*				
	0.1 knot	*0.2 knot*	*0.3 knot*	*0.4 knot*	*0.5 knot*
KNOTS	*MINUTES*	*MINUTES*	*MINUTES*	*MINUTES*	*MINUTES*
1.0	13	28	46	66	89
1.5	8	18	28	39	52
2.0	6	13	20	28	36
3.0	4	8	13	18	22
4.0	3	6	9	13	17
5.0	3	5	8	10	13

When there is a difference between the speeds of the maximum flood and ebb preceding and following the slack for which the duration is desired, it will be sufficiently accurate for practical purposes to find a separate duration for each maximum speed and take the average of the two as the duration of the weak current.

TABLE 5.—ROTARY TIDAL CURRENTS

EXPLANATION

Offshore and in some of the wider indentations of the coast, the tidal current is quite different from that found in the more protected bays and rivers. In these inside waters the tidal current is of the reversing type. It sets in one direction for a period of about 6 hours after which it ceases to flow momentarily and then sets in the opposite direction during the following 6 hours. Offshore the current, not being confined to a definite channel, changes its direction continually and never comes to a slack, so that in a tidal cycle of about 12½ hours it will have set in all directions of the compass. This type of current is therefore called a rotary current.

A characteristic feature of the rotary current is the absence of slack water. Although the current generally varies from hour to hour, this variation from greatest current to least current and back again to greatest does not give rise to a period of slack water. When the speed of the rotary tidal current is least, it is known as the minimum current, and when it is greatest it is known as the maximum current. The minimum and maximum speeds of the rotary current are thus related to each other in the same way as slack and strength of current, a minimum speed of the current following a maximum speed by an interval of about 3 hours and being followed in turn by another maximum after a further interval of 3 hours.

In the following table there are given for a number of offshore stations the direction and average speed of the rotary tidal current for each hour of the tidal cycle referred to predictions for a station in Table 1. All times are eastern standard for the 75th meridian.

The speeds given in the table are average. The Moon at new, full, or perigee tends to increase the speeds 15 to 20 percent above average. When perigee occurs at or near the time of new or full Moon the speeds will be 30 to 40 percent above average. Quadrature and apogee tend to decrease the speeds below average by 15 to 20 percent. When apogee ocurs at or near quadrature they will be 30 to 40 percent below average. The speeds will be about average when apogee occurs at or near the time of new or full Moon and also when perigee occurs at or near quadrature. (see table of astronomical data).

The direction of the current is given in degrees, true, reading clockwise from 0° at north, and is the direction toward which the water is flowing.

The speeds and directions are for the tidal current only and do not include the effect of winds. When a wind is blowing, a wind-driven current will be set up which will be in addition to the tidal current, and the actual current encountered will be a combination of the wind-driven current and tidal current. See the chapters on "Wind-Driven Currents" and "The Combination of Currents".

As an example, in the following table the current at Nantucket Shoals is given for each hour after maximum flood at Pollock Rip Channel. Suppose it is desired to find the direction and speed of the current at Nantucket Shoals at 3:15 p.m. (15:15) eastern standard time on a day when maximum flood at Pollock Rip Channel is predicted in Table 1 to occur at 13:20 eastern standard time. The desired time is therefore about 2 hours after maximum flood at Pollock Rip Channel, and from the following table the tidal current at Nantucket Shoals at this time is setting 15° true with an average speed of 0.8 knot. If this day is near the time of new Moon and about halfway between apogee and perigee, then the distance effect of the Moon will be nil and the phase effect alone will operate to increase the speed by about 15 percent, to 0.9 knot. If a wind has been blowing, determine the direction and speed of the wind-driven current from the chapter on "Wind-Driven Currents" and combine it with the above tidal current as explained in the chapter on "The Combination of Currents."

Caution.—Speeds from 1½ to 3 knots have been observed at most of the stations in this table. Near Diamond Shoal Light a speed of 4 knots has been recorded.

At some offshore stations, such as near the entrance to Chesapeake Bay, the tidal current is directed alternately toward and away from the bay entrance with intervening periods of slack water, so that it is essentially a reversing current. For such places, differences for predicting are given in Table 2.

TABLE 5.—ROTARY TIDAL CURRENTS

Georges Bank
Lat 41° 50' N., Long 66° 37' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	285	0.9
	1	304	1.1
	2	324	1.2
	3	341	1.1
	4	10	1.0
	5	43	0.9
	6	89	1.0
	7	127	1.3
	8	147	1.6
	9	172	1.4
	10	197	0.9
	11	232	0.8

Georges Bank
Lat 41° 54' N., Long 67° 08' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	298	1.1
	1	325	1.4
	2	344	1.5
	3	0	1.2
	4	33	0.7
	5	82	0.8
	6	118	1.1
	7	138	1.5
	8	153	1.2
	9	178	1.1
	10	208	0.9
	11	236	0.8

Georges Bank
Lat 41° 48' N., Long 67° 34' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	325	1.5
	1	332	2.1
	2	342	2.0
	3	358	1.3
	4	35	0.7
	5	99	0.8
	6	126	1.3
	7	150	2.0
	8	159	1.9
	9	169	1.7
	10	197	1.2
	11	275	0.9

Georges Bank
Lat 41° 42' N., Long 67° 37' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	316	1.1
	1	341	1.3
	2	356	1.0
	3	16	0.8
	4	43	0.6
	5	92	0.8
	6	122	1.0
	7	146	1.1
	8	170	1.1
	9	195	1.0
	10	215	1.0
	11	272	0.9

Georges Bank
Lat 41° 41' N., Long 67° 49' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	318	1.6
	1	320	1.8
	2	325	1.4
	3	330	0.8
	4	67	0.3
	5	111	0.9
	6	117	1.5
	7	126	1.7
	8	144	1.7
	9	160	1.1
	10	242	0.8
	11	292	1.2

Georges Bank
Lat 41° 30' N., Long 68° 07' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	312	1.5
	1	338	1.7
	2	346	1.5
	3	14	1.1
	4	59	0.9
	5	99	0.9
	6	123	1.3
	7	144	1.7
	8	160	1.6
	9	187	1.3
	10	244	1.0
	11	274	1.1

Georges Bank
Lat 41° 29' N., Long 67° 04' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	277	1.0
	1	302	1.2
	2	329	1.4
	3	348	1.3
	4	15	1.2
	5	48	1.1
	6	85	1.2
	7	122	1.4
	8	145	1.5
	9	166	1.3
	10	194	1.2
	11	223	1.1

Georges Bank
Lat 41° 14' N., Long 67° 38' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	305	1.4
	1	332	1.6
	2	355	1.6
	3	15	1.4
	4	38	1.1
	5	77	0.9
	6	112	1.2
	7	141	1.6
	8	162	1.6
	9	187	1.5
	10	214	1.4
	11	252	1.2

Georges Bank
Lat 41° 13' N., Long 68° 20' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	319	1.5
	1	332	2.0
	2	345	1.4
	3	9	0.8
	4	42	0.6
	5	80	0.7
	6	118	1.0
	7	138	1.3
	8	154	1.4
	9	169	1.5
	10	188	1.3
	11	236	0.9

Georges Bank
Lat 40° 48' N., Long 67° 40' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	304	0.9
	1	340	0.9
	2	353	0.8
	3	29	0.6
	4	56	0.6
	5	83	0.6
	6	107	0.9
	7	140	1.0
	8	156	1.0
	9	175	0.9
	10	202	0.8
	11	245	0.8

Georges Bank
Lat 40° 49' N., Long 68° 34' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	301	1.2
	1	326	1.5
	2	345	1.4
	3	8	1.1
	4	36	0.8
	5	69	0.8
	6	106	1.0
	7	139	1.4
	8	153	1.5
	9	175	1.4
	10	201	1.1
	11	237	0.9

Great South Channel, Georges Bank
Lat 40° 31' N., Long 68° 47' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	320	0.7
	1	331	0.9
	2	342	1.1
	3	3	1.0
	4	23	0.8
	5	63	0.4
	6	129	0.7
	7	140	0.9
	8	164	1.0
	9	179	1.0
	10	190	0.8
	11	221	0.6

Nantucket Shoals
Lat. 40° 37' N., Long. 69° 37' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	323	0.6
	1	355	0.7
	2	15	0.8
	3	38	0.8
	4	55	0.8
	5	85	0.7
	6	125	0.6
	7	162	0.7
	8	192	0.8
	9	212	0.8
	10	232	0.8
	11	257	0.7

Great South Channel, Georges Bank
Lat. 41° 10' N., Long. 68° 56' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	318	0.5
	1	349	0.7
	2	352	1.1
	3	356	1.0
	4	359	0.7
	5	18	0.4
	6	106	0.4
	7	157	0.7
	8	165	1.0
	9	173	1.0
	10	180	0.8
	11	204	0.6

Davis Bank, Nantucket Shoals, 15 miles SE of Nantucket I.
Lat. 41° 07' N., Long. 69° 41' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	15	1.5
	1	28	2.1
	2	32	2.4
	3	35	2.1
	4	37	1.1
	5	128	0.4
	6	197	1.2
	7	204	1.9
	8	205	2.2
	9	206	2.2
	10	213	1.6
	11	307	0.7

Davis Bank, Nantucket Shoals (west), 15 miles SE of Nantucket I.
Lat. 41° 03' N., Long. 69° 47' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	346	0.9
	1	28	1.2
	2	47	1.3
	3	73	1.1
	4	103	0.8
	5	132	0.9
	6	182	0.8
	7	215	1.2
	8	240	1.1
	9	251	0.9
	10	267	0.7
	11	302	0.7

Davis Bank, Nantucket Shoals (middle), 17.5 miles SE of Nantucket I.
Lat. 41° 02' N., Long. 69° 43' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	23	0.8
	1	27	1.5
	2	28	1.9
	3	29	1.8
	4	46	1.1
	5	115	0.4
	6	191	1.2
	7	202	1.9
	8	215	1.7
	9	225	1.5
	10	233	0.9
	11	270	0.2

Davis Bank, Nantucket Shoals (east), 18.5 miles SE of Nantucket I.
Lat. 41° 02' N., Long. 69° 41' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	30	0.6
	1	36	1.3
	2	38	1.5
	3	50	1.4
	4	80	1.1
	5	105	0.8
	6	178	0.6
	7	230	1.3
	8	235	1.7
	9	238	1.4
	10	241	1.0
	11	265	0.3

Nantucket Island, 28 miles east of
Lat. 41° 20' N., Long. 69° 21' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	19	0.9
	1	7	1.3
	2	359	1.4
	3	351	1.1
	4	334	0.5
	5	221	0.3
	6	198	0.8
	7	185	1.1
	8	184	1.1
	9	184	0.9
	10	183	0.7
	11	60	0.1

Monomoy Point, 23 miles east of
Lat. 41° 35' N., Long. 69° 30' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	320	0.7
	1	324	1.0
	2	326	0.9
	3	330	0.7
	4	334	0.3
	5	144	0.1
	6	145	0.5
	7	146	0.8
	8	147	0.9
	9	148	0.8
	10	150	0.4
	11	230	0.1

Nauset Beach Light, 5 miles NE of
Lat. 41° 56' N., Long. 69° 54' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	315	0.5
	1	327	0.6
	2	340	0.5
	3	357	0.2
	4	16	0.1
	5	124	0.2
	6	132	0.4
	7	135	0.6
	8	139	0.6
	9	145	0.4
	10	269	0.2
	11	297	0.2

Great Round Shoal Channel entrance
Nantucket Sound entrance
Lat. 41° 26' N., Long. 69° 44' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	32	1.6
	1	45	1.4
	2	68	1.3
	3	95	1.1
	4	140	0.8
	5	192	1.2
	6	210	1.5
	7	220	1.5
	8	235	1.2
	9	264	0.9
	10	303	0.8
	11	350	1.2

Great Round Shoal Channel
Buoy 9, 0.3 mile NE of
Lat. 41° 24' N., Long. 69° 55' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	47	1.0
	1	60	1.3
	2	70	1.3
	3	91	0.8
	4	153	0.5
	5	211	0.7
	6	234	0.9
	7	247	1.3
	8	252	1.1
	9	260	0.9
	10	305	0.3
	11	35	0.4

Great Round Shoal Channel, 4 miles
NE of Great Pt., Nantucket Sound
Lat. 41° 26' N., Long. 69° 59' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	80	0.8
	1	88	1.1
	2	96	1.3
	3	104	1.0
	4	129	0.5
	5	213	0.5
	6	267	1.1
	7	275	1.4
	8	280	1.2
	9	284	0.7
	10	328	0.2
	11	42	0.4

TABLE 5.—ROTARY TIDAL CURRENTS

Cuttyhunk I., 3.25 miles SW of
Lat. 41° 23' N., Long. 71° 00' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
* Hours after maximum flood at Pollock Rip Channel, see page 28	0	356	0.4
	1	15	0.3
	2	80	0.2
	3	123	0.3
	4	146	0.5
	5	158	0.5
	6	173	0.4
	7	208	0.3
	8	267	0.2
	9	306	0.3
	10	322	0.3
	11	335	0.4

Gooseberry Neck, 2 miles SSE of
Buzzards Bay entrance
Lat. 41° 27' N., Long. 71° 01' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	52	0.6
	1	65	0.4
	2	108	0.2
	3	168	0.3
	4	210	0.4
	5	223	0.5
	6	232	0.5
	7	249	0.3
	8	274	0.2
	9	321	0.2
	10	16	0.3
	11	38	0.5

Browns Ledge, Massachusetts
Lat. 41° 20' N., Long. 71° 06' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Pollock Rip Channel, see page 28	0	330	0.3
	1	12	0.3
	2	28	0.3
	3	104	0.4
	4	118	0.4
	5	123	0.4
	6	168	0.3
	7	205	0.2
	8	201	0.3
	9	270	0.3
	10	282	0.4
	11	318	0.5

Point Judith, Harbor of Refuge,
Block Island Sound (west entrance)
Lat. 41° 22' N., Long. 71° 31' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at The Race, see page 34	0	197	0.2
	1	160	0.2
	2	151	0.4
	3	159	0.5
	4	146	0.5
	5	124	0.5
	6	109	0.4
	7	104	0.2
	8	90	0.1
	9	30	0.1
	10	336	0.1
	11	209	0.1

Point Judith, 4.5 miles SW of,
Block Island Sound
Lat. 41° 18' N., Long. 71° 33' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at The Race, see page 34	0	264	0.6
	1	270	0.6
	2	270	0.5
	3	280	0.2
	4	62	0.2
	5	70	0.6
	6	78	0.7
	7	95	0.5
	8	105	0.3
	9	120	0.1
	10	286	0.1
	11	277	0.3

Grace Point, 2 miles NW of,
Block Island Sound
Lat. 41° 12' N., Long. 71° 38' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at The Race, see page 34	0	304	0.2
	1	2	0.2
	2	28	0.4
	3	28	0.6
	4	37	0.7
	5	71	0.6
	6	86	0.6
	7	126	0.4
	8	137	0.2
	9	213	0.1
	10	256	0.1
	11	267	0.1

Little Gull I., 3.7 miles ESE of,
Block Island Sound
Lat. 41° 11' N., Long. 72° 02' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at The Race, see page 34	0	271	*0.8
	1	284	0.5
	2	320	0.2
	3	68	0.2
	4	77	0.7
	5	95	1.1
	6	118	1.6
	7	128	1.2
	8	150	0.6
	9	171	0.2
	10	221	0.4
	11	228	0.7

Sandy Hook Approach Lighted
Horn Buoy 2A, 0.2 mile W of
Lat. 40° 27' N., Long. 73° 55' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at The Narrows, N.Y. Harbor, see page 52	0	313	0.4
	1	325	0.3
	2	356	0.2
	3	55	0.2
	4	94	0.3
	5	118	0.4
	6	136	0.6
	7	147	0.5
	8	177	0.2
	9	256	0.2
	10	290	0.3
	11	298	0.4

Fenwick Shoal Lighted Whistle Buoy 2
off Delaware coast
Lat. 38° 25' N., Long. 74° 46' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Delaware Bay Entrance, see page 58	0	342	0.2
	1	349	0.2
	2	357	0.1
	3	43	0.1
	4	110	0.1
	5	135	0.2
	6	150	0.3
	7	165	0.3
	8	185	0.2
	9	226	0.1
	10	282	0.1
	11	318	0.2

*Frying Pan Shoals, off Cape Fear
Lat. 33° 34' N., Long. 77° 49' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	335	0.3
	1	10	0.2
	2	50	0.2
	3	90	0.3
	4	110	0.3
	5	128	0.3
	6	150	0.3
	7	188	0.2
	8	235	0.2
	9	268	0.3
	10	290	0.3
	11	305	0.3

Cape Romain, 5 miles SE of
Lat. 32° 57' N., Long. 79° 17' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	6	0.2
	1	38	0.2
	2	55	0.3
	3	67	0.3
	4	93	0.3
	5	114	0.3
	6	167	0.2
	7	212	0.2
	8	242	0.3
	9	244	0.4
	10	262	0.3
	11	292	0.3

Cape Romain, 6.9 miles SW of
Lat. 32° 54' N., Long. 79° 26' W.

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	317	0.3
	1	350	0.2
	2	19	0.2
	3	71	0.3
	4	115	0.3
	5	111	0.3
	6	132	0.2
	7	160	0.2
	8	216	0.2
	9	251	0.2
	10	266	0.3
	11	303	0.3

* Current during June–August usually sets eastward, average velocity 1.2 knot

TABLE 5.—ROTARY TIDAL CURRENTS

Capers Inlet, 1 9 miles east of
Lat 32° 50' N., Long 79° 40' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	12	0 1
	1	58	0 1
	2	52	0 2
	3	53	0 2
	4	67	0 1
	5	98	0 1
	6	129	0 1
	7	214	0 1
	8	222	0 2
	9	254	0 2
	10	246	0 1
	11	247	0 1

Capers Inlet, 3 6 miles SE of
Lat 32° 49' N., Long 79° 38' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	302	0 2
	1	357	0 1
	2	34	0 1
	3	17	0 2
	4	89	0 2
	5	94	0 2
	6	112	0 2
	7	116	0 2
	8	189	0 1
	9	249	0 2
	10	268	0 2
	11	282	0 2

Charleston Entrance, 37 miles east of
Lat 32° 42' N., Long 79° 06' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	328	0 3
	1	350	0 3
	2	20	0 2
	3	65	0 2
	4	95	0 3
	5	118	0 3
	6	140	0 3
	7	163	0 3
	8	195	0 2
	9	235	0 2
	10	268	0 2
	11	295	0 3

Charleston Lighted Whistle Buoy 2C,
off Charleston Harbor entrance
Lat 32° 41' N., Long 79° 43' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	300	0 2
	1	332	0 2
	2	17	0 1
	3	55	0 2
	4	77	0 3
	5	93	0 3
	6	117	0 3
	7	153	0 2
	8	207	0 2
	9	242	0 2
	10	260	0 3
	11	275	0 3

Folly Island, 2 miles east of
Lat 32° 39' N., Long 79° 52' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	346	0 1
	1	24	0 2
	2	58	0 3
	3	76	0 3
	4	102	0 3
	5	121	0 2
	6	164	0 1
	7	222	0 2
	8	256	0 2
	9	256	0 3
	10	271	0 3
	11	290	0 2

Folly Island, 3 5 miles east of
Lat 32° 38' N., Long 79° 50' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	322	0 1
	1	47	0 2
	2	69	0 2
	3	86	0 2
	4	96	0 2
	5	115	0 2
	6	148	0 1
	7	215	0 1
	8	256	0 2
	9	260	0 2
	10	265	0 2
	11	285	0 1

Martins Industry, 5 miles east of
off Port Royal Sound
Lat 32° 06' N., Long 80° 28' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Charleston, see page 82	0	282	0 4
	1	293	0 3
	2	330	0 1
	3	30	0 1
	4	75	0 3
	5	92	0 4
	6	102	0 5
	7	110	0 4
	8	140	0 2
	9	200	0 2
	10	250	0 3
	11	271	0 4

Savannah Light, 1 2 miles SE of
Lat 31° 57' N., Long 80° 40' W

	Time	Direction (true)	Velocity
		Degrees	*Knots*
Hours after maximum flood at Savannah River Entrance, see page 88	0	296	0 3
	1	308	0 2
	2	326	0 1
	3	45	0 1
	4	90	0 2
	5	107	0 3
	6	114	0 3
	7	123	0 3
	8	145	0 2
	9	213	0 1
	10	267	0 2
	11	283	0 3

Fire Island Inlet, N.Y., 22 miles south of:
Tidal current is weak, averaging about 0.1 knot at strength.

Fire Island Lighted Whistle Buoy 2 Fl:
Tidal current is weak, averaging about 0.2 knot at strength.

Ambrose Light, New York Harbor entrance:
Tidal current is weak, averaging about 0.2 knot at strength.

Cape May, N.J., 72 miles east of:
Tidal current is weak, averaging about 0.1 knot at strength.

Five-Fathom Bank Northeast Lighted Whistle Buoy 2FB:
Tidal current is weak, averaging about 0.2 knot at strength.

Winter-Quarter Shoal Lighted Whistle Buoy 6WQS, 9.2 miles SE of, off Assateague I:
Tidal current is weak, averaging less than 0.1 knot.

Cape Charles, 70 miles east of:
Tidal current is weak, averaging about 0.2 knot at strength.

Chesapeake Light, 4.4 miles NE of, off Chesapeake Bay entrance, Va.:
Tidal current is weak and variable.

Cape Lookout Shoals Lighted Whistle Buoy 14:
Tidal current is weak, averaging about 0.2 knot at strength.
Current during June-August usually sets eastward, average speed 0.5 knot.

Ocracoke Inlet, 3.5 miles SSE of:
Tidal current is weak, averaging about 0.1 knot at strength.

Diamond Shoal Light, 3.9 miles SSW of:
Tidal current is weak, averaging less than 0.1 knot at strength.
Current during June-August usually sets northeastward, average speed 0.75 knot.

Frying Pan Shoals Light, 14.3 miles NW of:
Tidal current is weak, averaging about 0.2 knot at strength.
Current during June-August usually sets eastward, average speed 0.5 knot.

St. Johns Point, 5 miles east of, Fla:
Tidal current is weak, averaging about 0.2 knot at strength.

Fowey Rocks Light, 1.5 miles SW of:
Tidal current is weak and variable.

THE GULF STREAM

The region where the Gulf of Mexico narrows to form the channel between Florida Keys and Cuba may be regarded as the head of the Gulf Stream. From this region the stream sets eastward and northward through the Straits of Florida, and after passing Little Bahama Bank it continues northward and then northeastward, following the general direction of the 100-fathom curve as far as Cape Hatteras. The flow in the Straits is frequently referred to as the Florida Current.

Shortly after emerging from the Straits of Florida, the stream is joined by the Antilles Current, which flows northwesterly along the open ocean side of the West Indies before uniting with the water which has passed through the straits. Beyond Cape Hatteras the combined current turns more and more eastward under the combined effects of the deflecting force of the Earth's rotation and the eastwardly trending coastline, until the region of the Grand Banks of Newfoundland is reached.

Eastward of the Grand Banks the whole surface is slowly driven eastward and northeastward by the prevailing westerly winds to the coastal waters of northwestern Europe. For distinction, this broad and variable wind-driven surface movement is sometimes referred to as the North Atlantic Drift or Gulf Stream Drift.

In general, the Gulf Stream as it issues into the sea through the Straits of Florida may be characterized as a swift, highly saline current of blue water whose upper stratum is composed of warm water.

On its western or inner side, the Gulf Stream is separated from the coastal waters by a zone of rapidly falling temperature, to which the term "cold wall" has been applied. It is most clearly marked north of Cape Hatteras but extends, more or less well defined, from the Straits to the Grand Banks.

Throughout the whole stretch of 400 miles in the Straits of Florida, the stream flows with considerable speed. Abreast of Havana, the average surface speed in the axis of the stream is about 2½ knots. As the cross-sectional area of the stream decreases, the speed increases gradually, until abreast of Cape Florida it becomes about 3½ knots. From this point within the narrows of the straits, the speed along the axis gradually decreases to about 2½ knots off Cape Hatteras, N.C. These values are for the axis of the stream where the current is a maximum, the speed of the stream decreasing gradually from the axis as the edges of the stream are approached. The speed of the stream, furthermore, is subject to fluctations brought about by variations in winds and barometric pressure.

The following tables give the mean surface speed of the Gulf Stream in two cross sections in the Straits of Florida:

Between Rebecca Shoal and Cuba		*Between Fowey Rocks and Gun Cay*	
Distance south of Rebecca Shoal	*Mean surface speed observed*	*Distance east of Fowey Rocks*	*Mean surface speed observed*
Nautical miles	*Knots*	*Nautical miles*	*Knots*
20	0.3	8	2.7
35	0.7	11½	3.5
50	2.2	15	3.2
68	2.2	22	2.7
86	0.8	29	2.1
		36	1.7

Crossing the Gulf Stream at Jupiter or Fowey Rocks, an average allowance of 2.5 knots in a northerly direction should be made for the current.

Crossing the stream from Havana, a fair allowance for the average current between 100-fathoms curves is 1.1 knots in an east-north-easterly direction.

From within the straits, the axis of the Gulf Stream runs approximately parallel with the 100-fathom curve as far as Cape Hatteras. Since this stretch of coast line sweeps northward in a sharper curve than does the 100-fathom line, the stream lies at varying distances from the shore. The lateral boundaries of the current within the straits are fairly well fixed, but when the stream flows into the sea the eastern boundary becomes somewhat vague. On the western side, the limits can be defined approximately since the waters of the stream differ in color, temperature, salinity, and flow from the inshore coastal waters. On the east, however, the Antilles Current combines with the Gulf Stream, so that its waters here merge gradually with the waters of the open Atlantic. Observations of the National Ocean Service indicate that, in general, the average position of the inner edge of the Gulf Stream as far as Cape Hatteras lies inside the 50-fathom curve. The Gulf Stream, however, shifts somewhat with the seasons, and is considerably influenced by the winds which cause fluctuations in its position, direction, and speed; consequently, any limits which are assigned refer to mean or average positions.

The approximate mean positions of the inner edge and axis (point where greatest speed may be found) are indicated in the following table:

Approximate mean position of the Gulf Stream

Locality	*Inner Edge*	*Axis*
	Nautical miles	*Nautical miles*
North of Havana, Cuba	.....	25
Southeast of Key West, Fla	.....	45
East of Fowey Rocks, Fla	.....	10
East of Miami Beach, Fla	.....	15
East of Palm Beach, Fla	.....	15
East of Jupiter Inlet, Fla	.....	20
East of Cape Canaveral, Fla	10	45
East of Daytona Beach, Fla	25	75
East of Ormond Beach, Fla	25	75
East of St. Augustine, Fla. (coast line)	40	85
East of Jacksonville, Fla (coast line)	55	90
Southeast of Savannah, Ga. (coast line)	65	95
Southeast of Charleston, S.C. (coast line)	55	90
Southeast of Myrtle Beach, S.C.	60	100
Southeast of Cape Fear, N.C. (light)	35	75
Southeast of Cape Lookout, N.C. (light)	20	50
Southeast of Cape Hatteras, N.C.	10	35
Southeast of Virginia Beach, Va.	85	115
Southeast of Atlantic City, N.J.	120	.....
Southeast of Sandy Hook, N.J.	150	.....

At the western end of the Straits of Florida the limits of the Gulf Stream are not well defined, and for this reason the location of the inner edge has been omitted for Havana, Cuba, and Key West, Fla., in the above table. Between Fowey Rocks and Jupiter Inlet the inner edge is deflected westward and lies very close to the shore line.

Along the Florida Reefs between Alligator Reef and Dry Tortugas the distance of the northerly edge of the Gulf Stream from the edge of the reefs gradually increases toward the west. Off Alligator Reef it is quite close inshore, while off Rebecca Shoal and Dry Tortugas it is possibly 15 to 20 miles south of the 100-fathom curve. Between the reefs and the northern edge of the Gulf Stream the currents are ordinarily tidal and are subject at all times to considerable modification by local winds and barometric conditions. This neutral zone varies in both length and breadth; it may extend along the reefs a greater or lesser distance than stated, and its width varies as the northern edge of the Gulf Stream approaches or recedes from the reefs.

The approximate position of the axis of the Gulf Stream for various regions is shown on the following National Ocean Service Charts: No. 11013, Straits of Florida; No. 411, South Carolina to Cuba; No. 11460, Cape Canaveral to Key West; No. 11420, Alligator Reef to Havana. Chart No. 11009 shows the axis and the position of the inner edge of the Gulf Stream from Cape Hatteras to Straits of Florida.

WIND-DRIVEN CURRENTS

A wind continuing for some time will produce a current the speed of which depends on the speed of the wind, and unless the current is deflected by some other cause, the deflective force of the Earth's rotation will cause it to set to the right of the direction of the wind in the northern hemisphere and to the left in the southern hemisphere.

The current produced at off-shore locations by local winds of various strengths and directions has been investigated from observations made at 20 lightships (some of which have since been moved) from Portland, Maine to St. Johns River, Fla. The observations were made hourly and varied in length from 1 to 2 years at most of the locations to 5 years at Nantucket Shoals and 9 years at Diamond Shoal. The averages obtained are given below and may prove helpful in estimating the probable current that may result from various winds at the several locations.

Caution.—There were of course many departures from these averages of speed and direction, for the wind-driven current often depends not only on the length of time the wind blows but also on factors other than the local wind at the time and place of the current. The mariner must not, therefore, assume that the given wind will always produce the indicated current.

It should be remembered, too, that the current which a vessel experiences at any time is the resultant of the combined actions of the tidal current, the wind-driven current, and any other currents such as the Gulf Stream or currents due to river discharge.

Speed.—The table below shows the average speed of the current due to winds of various strengths.

Wind speed (miles per hour)	10	20	30	40	50
Average current speed (knots) due to wind at following lightship stations:					
Boston and Barnegat	0.1	0.1	0.2	0.3	0.3
Diamond Shoal and Cape Lookout Shoals	0.5	0.6	0.7	0.8	1.0
All other locations	0.2	0.3	0.4	0.5	0.6

Direction.—The position of the shore line with respect to the station influences considerably the direction of the currents due to certain winds. The following table shows for each station the average number of degrees by which the wind-driven current is deflected to the right or left (−) of the wind. Thus at Cape Lookout Shoals the table indicates that with a north wind the wind-driven current flows on the average 030° west of south, and with an east wind it flows 029° south of west.

Average deviation of current to right of wind direction

[A minus sign (–) indicates that the current sets to the left of the wind]

Wind from					N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
Old Lightship Stations	Lat.		Long.																	
	°	′	°	′	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Portland	43	32	70	06	24	14	9	8	– 2	– 14	0	26	15	18	18	24	15	34	13	18
Boston	42	20	70	45	– – –	– 1	– – –	21	– – –	32	– – –	29	– – –	20	– – –	2	– – –	19	– – –	15
Pollock Rip Slue	41	37	69	54	6	5	48	– 38	30	– 53	– 24	– 75	– 25	167	70	59	36	53	20	19
Nantucket Shoals	40	37	69	37	44	46	28	24	9	16	12	3	25	0	6	18	30	39	41	48
Hen and Chickens	41	27	71	01	16	14	– 7	– 1	– 14	3	– 39	– 36	25	55	35	30	20	16	16	8
Brenton Reef	41	26	71	23	34	25	22	19	25	1	– 7	8	27	48	23	41	41	31	21	24
Fire Island	40	29	73	11	35	23	15	8	2	– 17	31	55	40	41	31	14	– 2	0	25	37
Ambrose Channel	40	27	73	49	36	40	21	11	18	72	27	112	82	70	63	46	37	22	23	21
Scotland	40	27	73	55	16	– 12	– 26	– 36	– 61	– 36	– 92	– 150	90	33	77	44	15	30	27	13
Barnegat	39	46	73	56	6	5	– 13	– 9	– 16	– 7	33	54	55	30	14	8	0	– 5	21	29
Northeast End	38	58	74	30	30	14	– 3	– 11	– 20	– 31	– 42	– 28	37	44	25	18	7	16	25	18
Overfalls	38	48	75	01	28	– 6	– 1	2	– 40	– 56	– 78	– 22	68	28	55	54	32	31	32	45
Winter-Quarter Shoal	37	55	74	56	18	– 1	– 5	– 21	– 27	– 35	– 19	31	23	20	4	14	9	8	28	27
Chesapeake	36	59	75	42	18	– 2	– 4	5	– 6	23	73	71	57	38	27	26	22	18	15	22
Diamond Shoal	35	05	75	20	11	3	– 3	36	65	88	74	52	40	22	7	– 10	– 13	– 17	– 25	– 4
Cape Lookout Shoals	34	18	76	24	30	24	2	2	– 29	– – –	21	80	54	31	32	21	2	18	5	– 5
Frying Pan Shoals	33	34	77	49	34	34	18	6	2	9	48	55	48	38	26	14	– 7	– 12	– 27	– 6
Savannah	31	57	80	40	12	12	– 9	– 18	– 23	– 46	17	50	43	17	7	– 8	– 10	7	15	33
Brunswick	31	00	81	10	17	– 2	– 10	– 28	– 18	– 21	37	29	23	2	6	– 21	– 21	– 26	16	18
St. Johns	30	23	81	18	3	– 12	– 27	– 47	– 84	30	35	26	26	27	1	16	– 8	– 17	6	8

THE COMBINATION OF CURRENTS

In determining from the current tables the speed and direction of the current at any time, it is frequently necessary to combine the tidal current with the wind-driven current. The following methods indicate how the resultant of two or more currents may be easily determined.

Currents in the same direction.—When two or more currents set in the same direction it is a simple matter to combine them. The resultant current will have a speed which is equal to the sum of all the currents and it will set in the same direction.

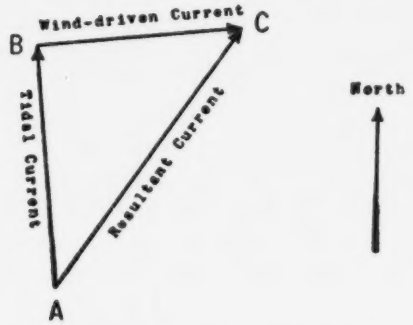
For example, a vessel is near the Nantucket Shoals station at a time when the tidal current is setting 120° with a speed of 0.6 knot, and at the same time a wind of 40 miles per hour is blowing from the west; what current will the vessel be subject to at that time? Since a wind of 40 miles per hour from the west will give rise to a current setting 120° with a speed of 0.5 knot, the combined tidal and wind-driven currents will set in the same direction (120°) with a speed of 0.6+0.5=1.1 knots.

Currents in opposite directions.—The combination of currents setting in opposite directions is likewise a simple matter. The speed of the resultant current is the difference between the opposite setting currents, and the direction of the resultant current is the same as that of the greater current.

As an example, let it be required to determine the speed of the current at the Nantucket Shoals station when the tidal current is setting 205° with a speed of 0.8 knot, and when a wind of 40 miles per hour is blowing from the south. The current produced by a wind of 40 miles per hour from the south would set 025° with a speed of 0.5 knot. The tidal and wind-driven currents therefore set in opposite directions, the tidal current being the stronger. Hence the resultant current will set in the direction of the tidal current (205°) with a speed of 0.8−0.5=0.3 knot.

Currents in different directions.—The combination of two or more currents setting neither in the same nor in opposite direction, while not as simple as in the previous cases, is nevertheless not difficult, the best method being a graphic method. Taking the combination of two currents as the simplest case, we draw from a given point as origin, a line the direction of which is the direction of one of the currents to be combined and whose length represents the speed of that current to some suitable scale; from the end of this line we draw another line the direction and length of which, to the same scale, represents the other of the currents to be combined; then a line joining the origin with the end of our second line gives the direction and speed of the resultant current.

As an example, let us take Nantucket Shoals station at a time when the tidal current is 0.7 knot setting 355° and a wind of 50 miles per hour is blowing from the west-southwest; the wind-driven current according to the preceding chapter would therefore be about 0.6 knot setting 085°



Combination of tidal current and wind-driven current

Using a scale of 2 inches to the knot we draw from point A in the diagram above, the line AB 1.4 inches in length directed 355° to represent the tidal current. From B we then draw the line BC 1.2 inches in length directed 085° to represent the wind current. The line AC represents the resultant current and on being measured is found to be about 1.8 inches in length directed 035° with a speed of 0.9 knot.

The combination of three or more currents is made in the same way as above, the third current to be combined being drawn from point C, the resultant current being given by joining the origin A with the end of the last line. For drawing the lines, a parallel rule and compass rose will be found convenient, or a protractor or polar coordinate paper may be used.

CURRENT DIAGRAMS

EXPLANATION

"Current diagram" is a graphic table that shows the velocities of the flood and ebb currents and the times of slack and strength over a considerable stretch of the channel of a tidal waterway. At definite intervals along the channel the velocities of the current are shown with reference to the times of turning of the current at some reference station. This make it a simple matter to determine the approximate velocity of the current along the channel for any desired time.

In using the diagrams, the desired time should be converted to hours before or after the time of the nearest predicted slack water at the reference station.

Besides showing in compact form the velocities of the current and their changes through the flood and ebb cycles, the current diagram serves two other useful purposes. By its use the mariner can determine the most advantageous time to pass through the waterway to carry the most favorable current and also the speed and direction of the current that will be encountered in the channel at any time.

Each diagram represents average durations and average velocities of flood and ebb. The durations and velocities of flood and ebb vary from day to day. Therefore predictions for the reference station at times will differ from average conditions and when precise results are desired the diagrams should be modified to represent conditions at such particular times. This can be done by changing the width of the shaded and unshaded portions of the diagram to agree in hours with the durations of flood and ebb, respectively, as given by the predictions for that time. The speeds in the shaded area should then be multiplied by the ratio of the predicted flood speed to the average flood speed (maximum flood speed given opposite the name of the reference station on the diagram) and the speeds in the unshaded area by the ratio of the predicted ebb speed to the average ebb speed.

In a number of cases approximate results can be obtained by using the diagram as drawn and modifying the final result by the ratio of speeds as mentioned above. Thus if the diagram in a particular case gives a favorable flood speed averaging about 1.0 knot and the ratio of the predicted flood speed to the average flood speed is 0.5 the approximate favorable current for the particular time would be $1.0 \times 0.5 = 0.5$ knot.

VINEYARD AND NANTUCKET SOUNDS
EXPLANATION OF CURRENT DIAGRAM

The current diagram on the opposite page represents average conditions of the surface currents along the middle of the channel from Gay Head to the east end of Pollock Rip Channel, the scale being too small to show details.

Easterly streams are designated "Flood" and westerly streams "Ebb". The small figures in the diagram denote the speed of the current in knots and tenths. The times are referred to slack waters at Pollock Rip Channel (Butler Hole), daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and speed of the current encountered by the vessel in passing through the sounds or the most favorable time, with respect to currents, for leaving any place shown on the left margin.

To determine speed and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time of day in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current; and if along the boundary of both, slack water. The figures on the diagram along the edge of the rule will show the speed of the current encountered at any place indicated on the left margin of the diagram.

Example.—A 12-knot vessel bound westward enters Pollock Rip Channel at 0700 of a given day, and it is desired to ascertain the speed and direction of the current which will be encountered on its passage through the sounds. Assuming that on the given day ebb begins at Pollock Rip Channel at 0508 and flood begins at 1120, the time 0700 will be about 2 hours after ebb begins. With parallel rulers transfer to the diagram the 12-knot speed line "Westbound", placing edge of rule on the point where the vertical line "2 hours after ebb begins at Pollock Rip Channel" intersects the horizontal 47-mile line which is the starting point. It will be found that the edge of the ruler passes through the unshaded portion of the diagram, the speeds along the edge averaging about 1.4 knots. The vessel will therefore have a favorable ebb current averaging about 1.4 knots all the way to Gay Head. It will also be seen that the edge of the ruler crosses the horizontal 16-mile line (at East Chop) about halfway between the figures 1.6 and 2.2. Therefore, when passing the vicinity of East Chop she will have a favorable current of almost 2 knots.

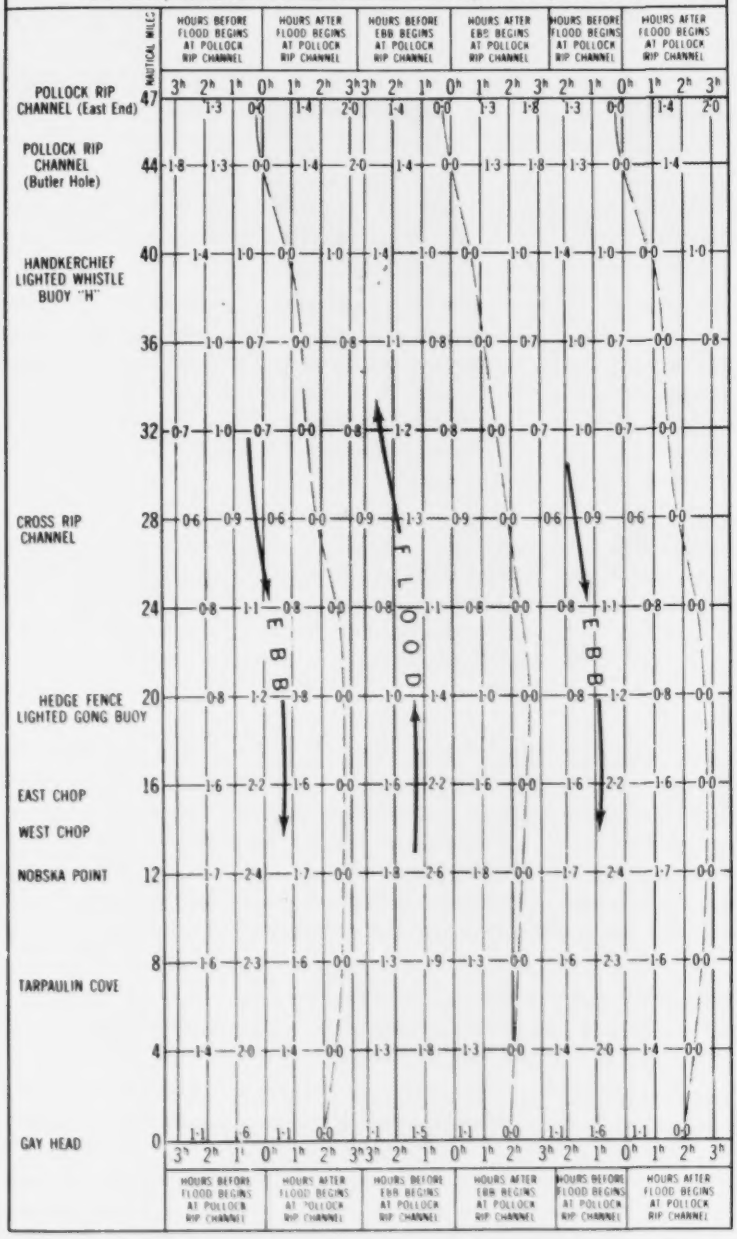
To determine the time of a favorable current for passing through the sounds.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vesel, moving the rule over the diagram until its edge runs as nearly as possible through the general line of largest speeds of shaded portion if eastbound and unshaded portion if westbound, giving consideration only to that part of the diagram which lies between place of departure and destination. An average of the figures along the edge of the ruler will give the average strength of current. The time (before or after flood begins or ebb begins at Pollock Rip Channel) for leaving any place shown on the left margin will be indicated vertically above the point where the ruler cuts a line drawn horizontally through the name of the place in question.

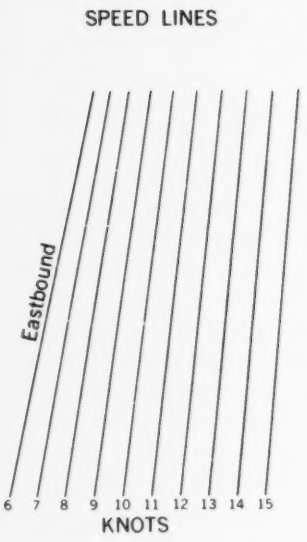
Example.—A 12-knot vessel will leave Gay Head for Pollock Rip Channel on a day when flood begins at Pollock Rip Channel at 0454 and ebb begins at 1104. At what time should she get under way so as to carry the most favorable current all the way through the sounds?

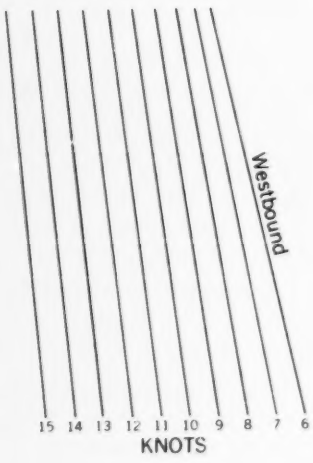
Place parallel rulers along the 12-knot speed line "Eastbound". Transfer the direction to the shaded portion of the diagram and as near as possible to the axis so as to include the greatest possible number of larger current speeds. It will be found that the edge of the rule cuts the horizontal line at Gay Head at the point representing "3 hours after flood begins at Pollock Rip Channel", and that the average of the currents along the edge of rulers is about 0.8 knot in a favorable direction. For the given day flood begins at Pollock Rip Channel at 0454; hence, if the vessel leaves Gay Head 3 hours later, or about 0754, she will average a favorable current of almost 1 knot all the way.

CURRENT DIAGRAM – VINEYARD AND NANTUCKET SOUNDS

Referred to predicted times of slack water at Pollock Rip Channel (Butler Hole)







EAST RIVER, NEW YORK
EXPLANATION OF CURRENT DIAGRAM

The current diagram on the opposite page represents average conditions of the surface currents along the middle of the channel between Governors Island and Throgs Neck, the scale being too small to show details. Eddies, of more or less violence, occur in numerous localities in the East River, but as a general rule the currents follow the channels.

On the diagram northerly and easterly streams are designated as "Flood" currents and westerly and southerly streams as "Ebb" currents. The small figures on the diagram denote the speed of the current in knots and tenths. The times are referred to slack waters at Hell Gate, daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By their use the speed and general direction of the current encountered by a vessel passing through the river may be determined; also the time of a favorable current for leaving any place shown on the left margin of the diagram may be found.

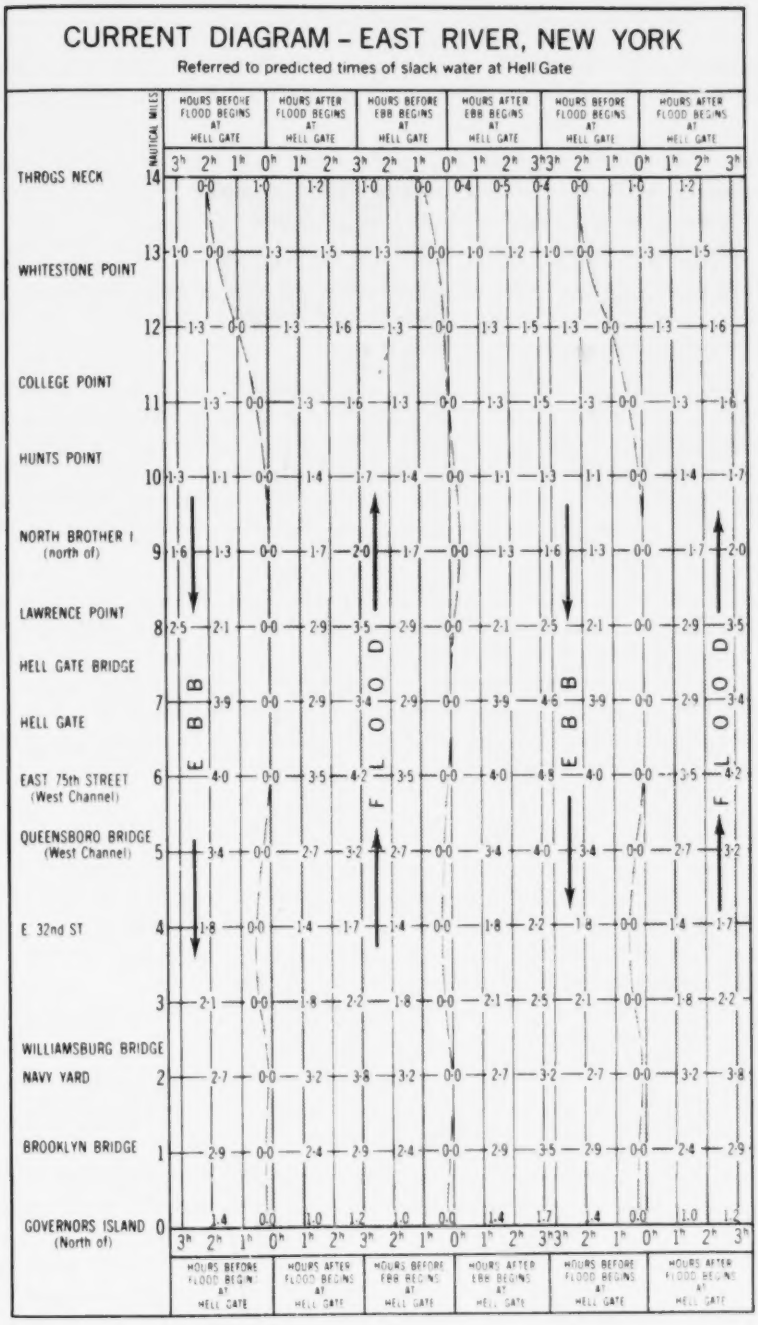
To determine the speed and direction of the current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to the normal speed of vessel, placing edge of ruler opposite the place of departure on the time before or after flood begins or ebb begins at Hell Gate that corresponds to the time of day desired. If the ruler's edge lies along the shaded portion of the diagram, a flood current will be encountered; if along the unshaded, an ebb current; and if along the boundary of both, slack water. The figures on the diagram along the edge of the ruler will show the speed of the current encountered at any place along the course indicated by the names on the left margin of diagram.

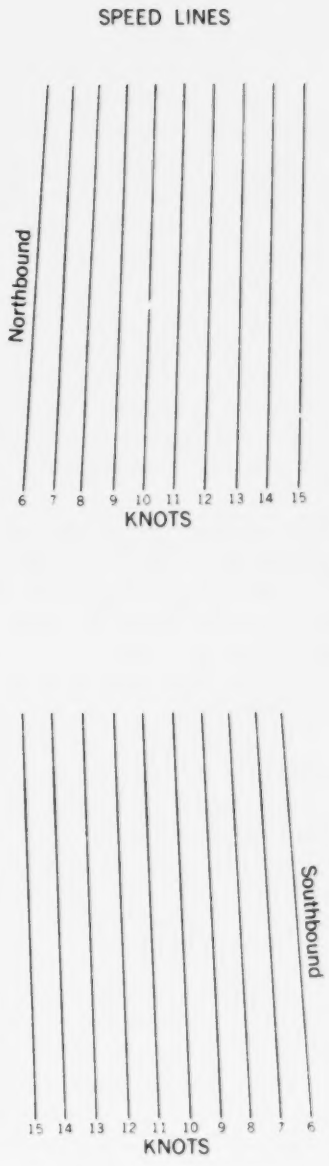
Example.—A 12-knot vessel passes Throgs Neck for Governors Island at 0820 of a given day and it is desired to ascertain the speed and direction of the current which will be encountered in passing through East River. Assuming that on the given day ebb begins at Hell Gate at 0614 and flood begins at 1245, the time 0820 will be about 2 hours after ebb begins. With parallel rulers transfer to the diagram the 12-knot speed line "Southbound", placing edge of ruler at the top in the column "Hours after ebb begins at Hell Gate" and intersecting 2h. It will be found that the edge of the ruler passes through strength of current in the unshaded portion of diagram averaging about 2.4 knots. The vessel will, therefore, have a favorable current averaging about 2.4 knots all the way.

To determine the time of a favorable current for passing through the East River.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs as nearly as possible through the general line of greatest current of unshaded portion if bound westward and southward,and shaded portion if bound northward and eastward. An average of the figures along edge of ruler will give average strength of current. The time (before or after flood begins or ebb begins at Hell Gate) for leaving any place on the left margin of diagram will be found vertically above the point where the parallel ruler cuts the horizontal line opposite the name of the place in question.

Example.—A 12-knot vessel in New York Harbor desires to pass through the East River in the afternoon of a day when flood begins at Hell Gate at 1404 and ebb begins at 1934. At what time should she get under way as to carry the most favorable current all the way to Throgs Neck?

Place parallel rulers along the 12-knot speed line "Northbound." Transfer this direction to the shaded portion of diagram so as to include the greatest number of larger current speeds. It will be found that the ruler's edge cuts the horizontal line at Governors Island about vertically under "2½ hours after flood begins at Hell Gate", and the average of the speeds along the edge of the ruler is about 2.3 knots. For the given day flood begins in Hell Gate at 1404 hence, if the vessel leaves Governors Island about 2½ hours later, or 1630 on that day, she will have a favorable current, averaging about 2.3 knots all the way.


CURRENT DIAGRAM – EAST RIVER, NEW YORK
Referred to predicted times of slack water at Hell Gate
NAUTICAL MILES
HOURS BEFORE FLOOD BEGINS AT HELL GATE
HOURS AFTER FLOOD BEGINS AT HELL GATE
HOURS BEFORE EBB BEGINS AT HELL GATE
HOURS AFTER EBB BEGINS AT HELL GATE
HOURS BEFORE FLOOD BEGINS AT HELL GATE
HOURS AFTER FLOOD BEGINS AT HELL GATE
3h 2h 1h 0h 1h 2h 3h 2h 1h 0h 1h 2h 3h 3h 2h 1h 0h 1h 2h 3h
THROGS NECK 14
WHITESTONE POINT 13
COLLEGE POINT 12
HUNTS POINT 11
NORTH BROTHER I (north of) 10
LAWRENCE POINT 9
HELL GATE BRIDGE 8
HELL GATE 7
EAST 75th STREET (West Channel) 6
QUEENSBORO BRIDGE (West Channel) 5
E 32nd ST 4
3
WILLIAMSBURG BRIDGE
NAVY YARD 2
BROOKLYN BRIDGE 1
GOVERNORS ISLAND (North of) 0
EBB
FLOOD
0·0 1·0 1·2 1·0 0·0 0·4 0·5 0·4 0·0 1·0 1·2
1·0 0·0 1·3 1·5 1·3 0·0 1·0 1·2 1·0 0·0 1·3 1·5
1·3 0·0 1·3 1·6 1·3 0·0 1·3 1·5 1·3 0·0 1·3 1·6
1·3 0·0 1·3 1·6 1·3 0·0 1·3 1·5 1·3 0·0 1·3 1·6
1·3 1·1 0·0 1·4 1·7 1·4 0·0 1·1 1·3 1·1 0·0 1·4 1·7
1·6 1·3 0·0 1·7 2·0 1·7 0·0 1·3 1·6 1·3 0·0 1·7 2·0
2·5 2·1 0·0 2·9 3·5 2·9 0·0 2·1 2·5 2·1 0·0 2·9 3·5
3·9 0·0 2·9 3·4 2·9 0·0 3·9 4·6 3·9 0·0 2·9 3·4
4·0 0·0 3·5 4·2 3·5 0·0 4·0 4·8 4·0 0·0 3·5 4·2
3·4 0·0 2·7 3·2 2·7 0·0 3·4 4·0 3·4 0·0 2·7 3·2
1·8 0·0 1·4 1·7 1·4 0·0 1·8 2·2 1·8 0·0 1·4 1·7
2·1 0·0 1·8 2·2 1·8 0·0 2·1 2·5 2·1 0·0 1·8 2·2
2·7 0·0 3·2 3·8 3·2 0·0 2·7 3·2 2·7 0·0 3·2 3·8
2·9 0·0 2·4 2·9 2·4 0·0 2·9 3·5 2·9 0·0 2·4 2·9
1·4 0·0 1·0 1·2 1·0 0·0 1·4 1·7 1·4 0·0 1·0 1·2
3h 2h 1h 0h 1h 2h 3h 2h 1h 0h 1h 2h 3h 3h 2h 1h 0h 1h 2h 3h
HOURS BEFORE FLOOD BEGIN AT HELL GATE
HOURS AFTER FLOOD BEGINS AT HELL GATE
HOURS BEFORE EBB BEGINS AT HELL GATE
HOURS AFTER EBB BEGINS AT HELL GATE
HOURS BEFORE FLOOD BEGINS AT HELL GATE
HOURS AFTER FLOOD BEGINS AT HELL GATE


SPEED LINES
Northbound
6 7 8 9 10 11 12 13 14 15
KNOTS
Southbound
15 14 13 12 11 10 9 8 7 6
KNOTS

NEW YORK HARBOR VIA AMBROSE CHANNEL
EXPLANATION OF CURRENT DIAGRAM

The current diagram on the opposite page represents average conditions of the surface currents along the middle of the channel from Ambrose Channel entrance to Spuyten Duyvil, the scale being too small to show details.

Northerly streams are designated "Flood" and southerly streams "Ebb". The small figures in the diagram denote the speed of the current in knots and tenths. The times are referred to slack waters at The Narrows, daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and speed of the current encountered by the vessel on entering or leaving the harbor or the most favorable time, with respect to currents, for leaving any place shown on the left margin.

To determine speed and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time of day in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current; and if along the boundary of both, slack water. The figures on the diagram along the edge of the ruler will show the speed of the current encountered at any place indicated on the left margin of the diagram.

Example.—A 10-knot vessel enters Ambrose Channel about 1040 of a given day. Flood begins at The Narrows at 0835 and ebb begins at 1420. The time 1040 will be about 2 hours after flood begins. With parallel rulers transfer to the diagram the 10-knot speed line "Northbound," placing edge of ruler on the point where the vertical line "2 hours after flood begins" intersects the horizontal 0-mile line which is the starting point. It will be found that the edge of the ruler passes through the shaded portion of the diagram, the speeds along the edge of the ruler from Ambrose Channel entrance to Chelsea Docks averaging about 1.4 knots. The vessel will therefore have a favorable flood current averaging about 1.4 knots all the way to Chelsea Docks.

To determine the time of a favorable current for leaving or entering the harbor.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs as nearly as possible through the general line of largest speeds of shaded portion if northbound and unshaded portion if southbound, giving consideration only to that part of the diagram which lies between place of departure and destination. An average of the figures along the edge of the ruler will give the average strength of current. The time (before or after flood or ebb begins at The Narrows) for leaving any place shown on the left margin will be indicated vertically above the point where the ruler cuts a line drawn horizontally through the name of the place in question.

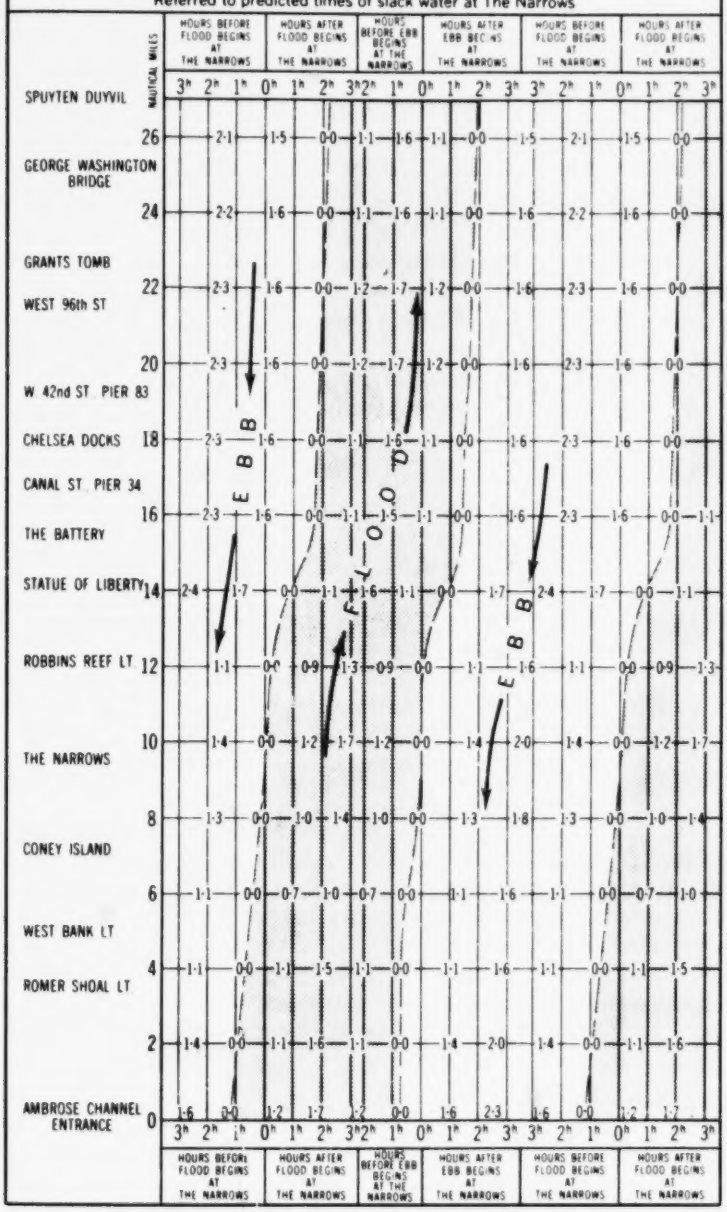
Example.—A 10-knot vessel will leave Chelsea Docks on a day when flood begins at The Narrows at 0804 and ebb begins at 1338. At what time should she get under way so as to carry the most favorable current all the way to Ambrose Channel entrance?

Place parallel rulers along the 10-knot speed line "Southbound". Transfer the direction to the unshaded portion of the diagram as near as possible to the axis so as to include the greatest possible number of larger current speeds on the portion of the chart below Chelsea Docks. It will be found that the edge of the ruler cuts the horizontal line at Chelsea Docks at the point representing "2½ hours after ebb begins at The Narrows", and that the average of the currents along the edge of the ruler is about 1.5 knots in a favorable direction. For the given day, ebb begins at The Narrows at 1338; hence, if the vessel leaves Chelsea Docks 2½ hours later, or about 1608, she will average a favorable current of about 1.5 knots all the way to Ambrose Channel entrance.

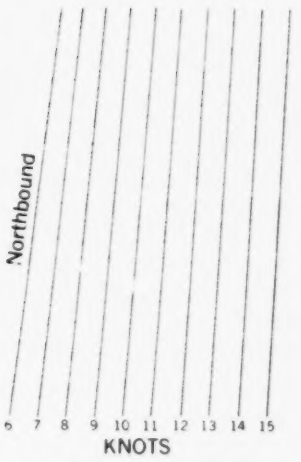
CURRENT DIAGRAM – NEW YORK HARBOR

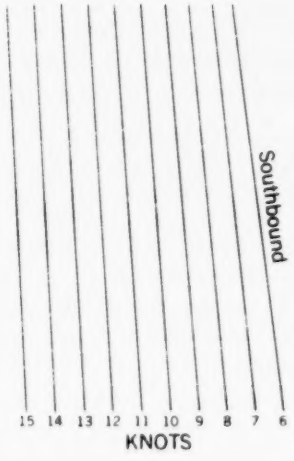
(via Ambrose Channel)

Referred to predicted times of slack water at The Narrows



SPEED LINES





DELAWARE BAY AND RIVER
EXPLANATION OF CURRENT DIAGRAM

This current diagram represents average conditions of the surface currents along the middle of the channel between Bristol and Delaware Bay Entrance, the scale being too small to show details.

Northerly streams are designated "Flood" and Southerly streams "Ebb". The small figures in the diagram denote the speed of the current in knots and tenths. The times are referred to slack waters at Delaware Bay Entrance, daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and speed of the current encountered by the vessel in passing up or down the bay and river or the most favorable time, with respect to currents, for leaving any place shown in the left margin.

To determine speed and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to the normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current, and if along the boundary of both, slack water. The figures in the diagram along the edge of the ruler will show the speed of the current encountered at any place indicated in the left margin of the diagram.

Example.—A 15-knot vessel bound southward leaves Philadelphia (Chestnut Street) at 0330 of a given day and it is desired to ascertain the speed and direction of the current which will be encountered between Philadelphia and Delaware Bay Entrance. Assuming that on the given day flood begins at Delaware Bay Entrance at 0436 and ebb begins at 1038, the time 0330 will be about 1 hour before flood begins. With parallel rulers transfer to the diagram the 15-knot speed line "Southbound" placing the edge of ruler on the intersection of the vertical line "1 hour before flood begins at Delaware Bay Entrance" and a horizontal line through Philadelphia (Chestnut Street) which is the starting point. It will be found that the edge of the ruler passes through an unshaded (ebb) portion with an average speed of about 1.3 knots from Philadelphia to the vicinity of Arnold Point, and the rest of the way through a shaded (flood) portion with an average speed of about 0.8 knot. The vessel will therefore have a favorable current averaging about 1.3 knots to the vicinity of Arnold Point and an unfavorable current averaging about 0.8 knot the rest of the way to Delaware Bay Entrance.

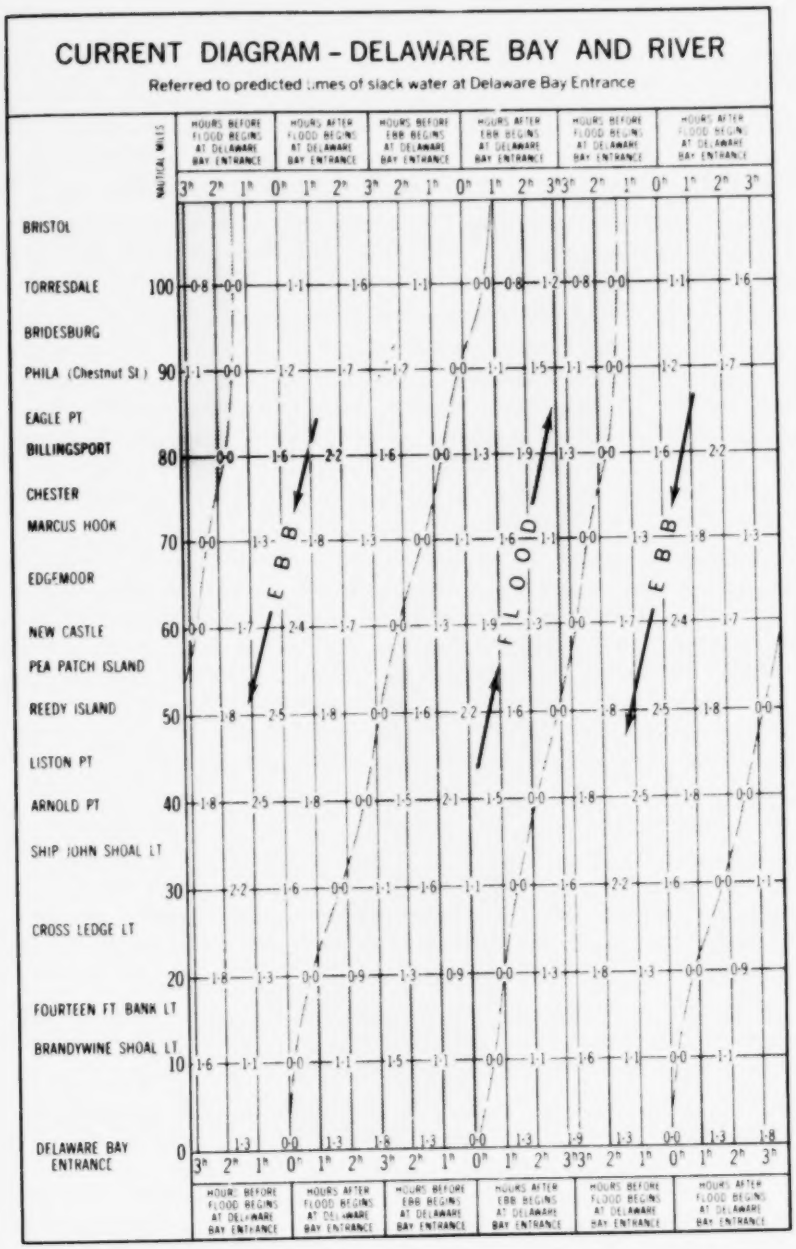
To determine the time of a favorable current for passing up or down the bay and river.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs as nearly as possible through the general line of largest speeds of shaded portion if northbound or unshaded portion if southbound giving consideration only to that part of diagram which lies between places of departure and destination. An average of the figures along edge of ruler will give the average speed of current. The time (before or after flood begins or ebb begins at Delaware Bay Entrance) for leaving any place shown in the left margin will be indicated vertically above or below the point where the ruler cuts a line drawn horizontally through the place in question.

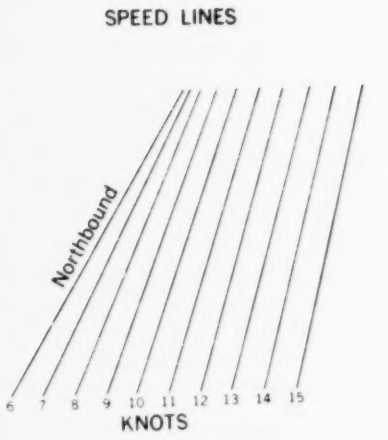
Example.—A 12-knot vessel will leave Delaware Bay Entrance on a day when flood begins at 0505 and ebb begins at 1112. At what time should she get under way so as to carry the most favorable current all the way to Philadelphia? With parallel rulers transfer the direction of 12-knot speed line "Northbound" to the shaded portion of diagram and as near as possible to the axis so as to include the greatest number of larger speeds. The edge of the ruler will cut the horizontal line at Delaware Bay Entrance near the vertical line "2 hours after flood begins at Delaware Bay Entrance" and the speeds along the ruler's edge will average about 1.7 knots. On the given day flood begins at Delaware Bay Entrance at 0505, hence, if the vessel leaves about 2 hours later, i.e., about 0700, she will have a favorable current averaging about 1.7 knots all the way.

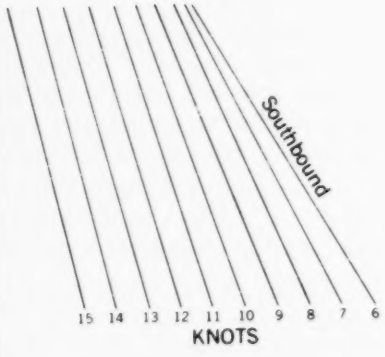
Note.—It is readily seen by transferring southbound speed lines to this diagram that southbound vessels can carry a favorable current for about 50 miles only.

CURRENT DIAGRAM – DELAWARE BAY AND RIVER

Referred to predicted times of slack water at Delaware Bay Entrance







CHESAPEAKE BAY
EXPLANATION OF CURRENT DIAGRAM

This current diagram represents average conditions of the surface currents along the middle of the channel from Cape Henry Light to Baltimore, the scale being too small to show details.

Northerly streams are designated "Flood" and southerly streams "Ebb". The small figures in the diagram denote the speed of the current in knots and tenths. The times are referred to slack waters at Chesapeake Bay Entrance, daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and speed of the current encountered by the vessel in passing up or down the bay or the most favorable time, with respect to currents, for leaving any place shown in the left margin.

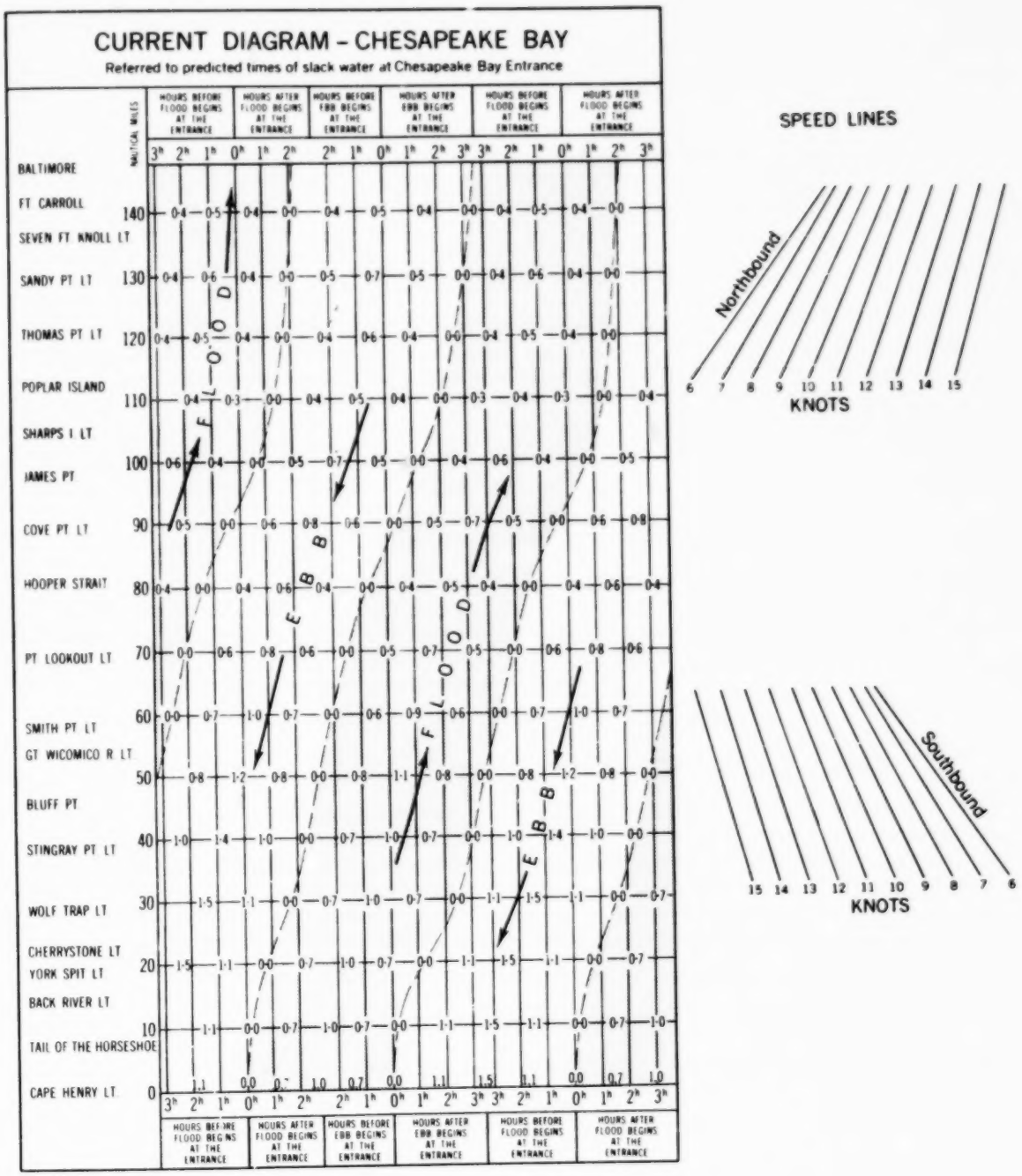
To determine speed and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to the normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current, and if along the boundary of both, slack water. The figures in the diagram along the edge of the ruler will show the speed of the current encountered at any place indicated in the left margin of the diagram.

Example.—A 12-knot vessel bound for Baltimore passes Cape Henry Light at 1430 of a given day, and it is desired to ascertain the speed and direction of the current which will be encountered. Assuming that on the given day flood begins at Chesapeake Bay entrance at 1256 and ebb begins at 1803, the time 1430 will be about 1½ hours after flood begins. With parallel rulers transfer to the diagram the 12-knot speed line "Northbound," placing edge of ruler so that it will cross the horizontal line opposite Cape Henry at a point "1½ hours after flood begins at the entrance." It will be found that the edge of the ruler passes through strength of current in the shaded portion of the diagram averaging about 0.7 knot.The vessel will, therefore, have a favorable current averaging about 0.7 knot all the way to Baltimore.

To determine the time of a favorable current for passing through the bay.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs approximately through the general line of greatest current of unshaded portion if southbound and shaded portion if northbound. An average of the figures along edge of ruler will give average strength of current. The time (before or after ebb or flood begins at the entrance) for leaving any place in the left margin of diagram will be found vertically above the point where the parallel ruler cuts the horizontal line opposite the place in question.

Example.—A 12-knot vessel in Baltimore Harbor desires to leave for Cape Henry Light on the afternoon of a day when flood begins at Chesapeake Bay Entrance at 1148 and ebb begins at 1718. At what time should she get under way so as to carry the most favorable current?

Place parallel rulers along the 12-knot speed line "Southbound." Transfer this direction to the diagram and move it along so as to include the greatest possible number of larger current speeds in the unshaded portion of the diagram. The most favorable time for leaving Baltimore thus found is about 1 hour after flood begins at the entrance, or about 1248. There will be an unfavorable current of about 0.2 knot as far as Seven Foot Knoll Light; after passing this light there will be an average favorable current of about 0.3 knot as far as Cove Point Light; from Cove Point Light to Bluff Point a contrary current averaging about 0.3 knot will be encountered; from Bluff Point to Tail of the Horseshoe there will be an average favorable current of about 0.9 knot; and from Tail of the Horseshoe to Cape Henry an average contrary current of about 0.2 knot will again be encountered.


CURRENT DIAGRAM - CHESAPEAKE BAY
Referred to predicted times of slack water at Chesapeake Bay Entrance
NAUTICAL MILES
HOURS BEFORE FLOOD BEGINS AT THE ENTRANCE
HOURS AFTER FLOOD BEGINS AT THE ENTRANCE
HOURS BEFORE EBB BEGINS AT THE ENTRANCE
HOURS AFTER EBB BEGINS AT THE ENTRANCE
BALTIMORE
FT CARROLL
SEVEN FT KNOLL LT
SANDY PT LT
THOMAS PT LT
POPLAR ISLAND
SHARPS I LT
JAMES PT
COVE PT LT
HOOPER STRAIT
PT LOOKOUT LT
SMITH PT LT
GT WICOMICO R LT
BLUFF PT
STINGRAY PT LT
WOLF TRAP LT
CHERRYSTONE LT
YORK SPIT LT
BACK RIVER LT
TAIL OF THE HORSESHOE
CAPE HENRY LT
FLOOD
EBB

SPEED LINES
Northbound
6 7 8 9 10 11 12 13 14 15
KNOTS

Southbound
15 14 13 12 11 10 9 8 7 6
KNOTS

PUBLICATIONS RELATING TO TIDES AND TIDAL CURRENTS

TIDE TABLES

Advance information relative to the rise and fall of the tide is given in annual tide tables. These tables include the predicted times and heights of high and low waters for every day in the year for a number of reference stations and differences for obtaining similar predictions for numerous other places.

Tide Tables, Central and Western Pacific Ocean and Indian Ocean.
Tide Tables, East Coast of North and South America (Including Greenland).
Tide Tables, Europe and West Coast of Africa (Including the Mediterranean Sea).
Tide Tables, West Coast of North and South America (Including the Hawaiian Islands).
Tide Tables, Alaskan Supplement.

TIDAL CURRENT TABLES

Accompanying the rise and fall of the tide is a periodic horizontal flow of the water known as the tidal current. Advance information relative to these currents is made available in annual tidal current tables which include daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents for a number of waterways together with differences for obtaining predictions for numerous other places.

Tidal Current Tables, Atlantic Coast of North America.
Tidal Current Tables, Pacific Coast of North America and Asia.

REGIONAL TIDE AND TIDAL CURRENT TABLES

This publication includes the predicted times and heights of the high and low water for every day of the year for specific coastal region reference stations and differences for obtaining similar predictions for numerous subordinate locations. Also, it contains daily predictions of the times of slack water and the times and speeds of strength of flood and ebb currents for specific coastal region reference stations and time differences and speed ratios for numerous subordinate locations.

Regional Tide and Tidal Current Tables, New York Harbor to Chesapeake Bay.

TIDAL CIRCULATION AND WATER LEVEL FORECAST ATLAS

This atlas series provides a composite view of the total tidal phenomenon for major estuaries of the United States. Twelve pairs of hourly charts are used to depict the information. The first of each pair presents contours of mean tidal height throughout the specified estuary. Inserts and a vertical section provide additional tidal information. The second chart presents the speed and direction of the tidal current throughout the area. Corange, cotidal, cospeed, and cophase charts are shown in the following section. Finally, daily tide predictions are provided for important locations, in tabular form, for several years in advance.

Tidal Circulation and Water Level Forecast Atlas, Delaware River and Bay

TIDAL CURRENT DIAGRAMS

The tidal current diagrams are a series of 12 monthly diagrams to be used with the tidal current charts to give the user a convenient method to determine the current flow on a particular day.

Tidal Current Diagrams for Long Island Sound and Block Island Sound.
Tidal Current Diagrams for Boston Harbor.
Tidal Current Diagrams for New York Harbor.

TIDAL CURRENT CHART

Each publication consists of a set of 12 charts which depict, by means of arrows and figures, the direction and speed of the tidal current for each hour of the tidal cycle. The charts, which may be used for any year, present a comprehensive view of the tidal current movement in the respective waterways as a whole and also supply a means for readily determining for any time the direction and speed of the current at various localities throughout the water areas covered. The Narragansett Bay tidal current chart is to be used with the annual tide tables. The other charts require the annual tidal current tables.

Tidal Current Charts, Boston Harbor.
Tidal Current Charts, Charleston Harbor, S.C.
Tidal Current Charts, Long Island Sound and Block Island Sound.
Tidal Current Charts, Narragansett Bay.
Tidal Current Charts, Narragansett Bay to Nantucket Sound.
Tidal Current Charts, New York Harbor.
Tidal Current Charts, Puget Sound, Northern Part
Tidal Current Charts, Puget Sound, Southern Part
Tidal Current Charts, San Francisco Bay.
Tidal Current Charts, Upper Chesapeake Bay.
Tidal Current Charts, Tampa Bay.

GLOSSARY OF TERMS

ANNUAL INEQUALITY—Seasonal variation in the water level or current, more or less periodic, due chiefly to meteorological causes.

APOGEAN TIDES OR TIDAL CURRENTS—Tides of decreased range or currents of decreased speed occurring monthly as the result of the Moon being in apogee (farthest from the Earth).

AUTOMATIC TIDE GAGE—An instrument that automatically registers the rise and fall of the tide. In some instruments, the registration is accomplished by recording the heights at regular intervals in digital format, in others by a continuous graph in which the height, versus corresponding time of the tide, is recorded.

BENCH MARK (BM)—A fixed physical object or marks used as reference for a vertical datum. A *tidal bench mark* is one near a tide station to which the tide staff and tidal datums are referred. A *Geodetic bench mark* identifies a surveyed point in the National Geodetic Vertical Network.

CHART DATUM—The tidal datum to which soundings on a chart are referred. It is usually taken to correspond to low water elevation of the tide, and its depression below mean sea level is represented by the symbol Zo.

CURRENT—Generally, a horizontal movement of water. Currents may be classified as *tidal* and *nontidal*. Tidal currents are caused by gravitational interactions between the Sun, Moon, and Earth and are a part of the same general movement of the sea that is manifested in the vertical rise and fall, called *tide*. Nontidal currents include the permanent currents in the general circulatory systems of the sea as well as temporary currents arising from more pronounced meteorological variability.

CURRENT DIFFERENCE—Difference between the time of slack water (or minimum current) or strength of current in any locality and the time of the corresponding phase of the tidal current at a reference station, for which predictions are given in the *Tidal Current Tables*.

CURRENT ELLIPSE—A graphic representation of a rotary current in which the velocity of the current at different hours of the tidal cycle is represented by radius vectors and vectorial angles. A line joining the extremities of the radius vectors will form a curve roughly approximating an ellipse. The cycle is completed in one-half tidal day or in a whole tidal day according to whether the tidal current is of the semidiurnal or the diurnal type. A current of the mixed type will give a curve of two unequal loops each tidal day.

CURRENT METER—An instrument for measuring the speed and direction or just the speed of a current. The measurements are usually Eulerian since the meter is most often fixed or moored at a specific location.

DATUM (vertical)—For marine applications, a base elevation used as a reference from which to reckon heights or depths. It is called a *tidal datum* when defined by a certain phase of the tide. Tidal datums are local datums and should not be extended into areas which have differing topographic features without substantiating measurements. In order that they may be recovered when needed, such datums are referenced to fixed points known as *bench marks*.

DAYLIGHT SAVING TIME—A time used during the summer in some localities in which clocks are advanced 1 hour from the usual standard time.

DIURNAL—Having a period or cycle of approximately 1 tidal day. Thus, the tide is said to be diurnal when only one high water and one low water occur during a tidal day, and the tidal current is said to be diurnal when there is a single flood and single ebb period in the tidal day. A rotary current is diurnal if it changes its direction through all points of the compass once each tidal day.

DIURNAL INEQUALITY—The difference in height of the two high waters or of the two low waters of each day; also the difference in speed between the two flood tidal currents or the two ebb tidal currents of each day. The difference changes with the declination of the Moon and to a lesser extent with the declination of the Sun. In general, the inequality tends to increase with an increasing declination, either north or south, and to diminish as the Moon approaches the Equator. *Mean diurnal high water inequality* (DHQ) is one-half the average difference between the two high waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of all high waters from the mean of

the higher high waters. *Mean diurnal low water inequality* (DLQ) is one-half the average difference between the two low waters of each day observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). It is obtained by subtracting the mean of the lower low waters from the mean of all low waters. *Tropic high water inequality* (HWQ) is the average difference between the two high waters of the day at the times of the tropic tides. *Tropic low water inequality* (LWQ) is the average difference between the two low waters of th day at the times of the tropic tides. Mean and tropic inequalities as defined above are applicable only when the type of tide is either semidiurnal or mixed. Diurnal inequality is sometimes called *declinational inequality.*

DOUBLE EBB—An ebb tidal current where, after ebb begins, the speed increases to a maximum called *first ebb;* it then decreases, reaching a *minimum ebb* near the middle of the ebb period (and at some places it may actually run in a flood direction for a short period); it then again ebbs to a maximum speed called *second ebb* after which it decreases to slack water.

DOUBLE FLOOD—A flood tidal current where, after flood begins, the speed increases to a maximum called first flood; it then decreases, reaching a minimum flood near the middle of the flood period (and at some places it may actually run in an ebb direction for a short period); it then again floods to a maximum speed called second flood after which it decreases to slack water.

DOUBLE TIDE—A double-headed tide, that is, a high water consisting of two maxima of nearly the same height separated by a relatively small depression, or a low water consisting of two minima separated by a relatively small elevation. Sometimes, it is called an *agger.*

DURATION OF FLOOD AND DURATION OF EBB—*Duration of flood* is the interval of time in which a tidal current is flooding, and the *duration of ebb* is the interval in which it is ebbing. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tidal current or a period of 24.84 hours for a diurnal current. In a normal semidiurnal tidal current, the duration of flood and duration of ebb will each be approximately equal to 6.21 hours, but the times may be modified greatly by the presence of a nontidal flow. In a river the duration of ebb is usually longer than the duration of flood because of the freshwater discharge, especially during the spring when snow and ice melt are the predominant influences.

DURATION OF RISE AND DURATION OF FALL—*Duration of rise* is the interval from low water to high water, and *duration of fall* is the interval from high water to low water. Together they cover, on an average, a period of 12.42 hours for a semidiurnal tide or a period of 24.84 hours for a diurnal tide. In a normal semidiurnal tide, the duration of rise and duration of fall will each be approximately equal to 6.21 hours, but in shallow waters and in rivers there is a tendency for a decrease in the duration of rise and a corresponding increase in the duration of fall.

EBB CURRENT—The movement of a tidal current away from shore or down a tidal river or estuary. In the mixed type of reversing tidal current, the terms *greater ebb* and *lesser ebb* are applied respectively to the ebb tidal currents of greater and lesser speed of each day. The terms *maximum ebb* and *minimum ebb* are applied to the maximum and minimum speeds of a current running continuously ebb, the speed alternately increasing and decreasing without coming to a slack or reversing. The expression *maximum ebb* is also applicable to any ebb current at the time of greatest speed.

EQUATORIAL TIDAL CURRENTS—Tidal currents occurring semimonthly as a result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tidal current is at a minimum.

EQUATORIAL TIDES—Tides occurring semi monthly as the result of the Moon being over the Equator. At these times the tendency of the Moon to produce a diurnal inequality in the tide is at a minimum.

FLOOD CURRENT—The movement of a tidal current toward the shore or up a tidal river or estuary. In the mixed type of reversing current, the terms *greater flood* and *lesser flood* are applied respectively to the flood currents of greater and lesser speed of each day. The terms *maximum flood* and *minimum flood* are applied to the maximum and minimum speeds of a flood current, the speed of which alternately increases and decreases without coming to a slack or reversing. The expression *maximum flood* is also applicable to any flood current at the time of greatest speed.

GREAT DIURNAL RANGE (Gt)—The difference in height between mean higher high water and mean lower low water. The expression may also be used in its contracted form, *diurnal range.*

GULF COAST LOW WATER DATUM—A chart datum. Specifically, the tidal datum formerly designated

for the coastal waters of the Gulf Coast of the United States. It was defined as *mean lower low water* when the type of tide was mixed and *mean low water* when the type of tide was diurnal.

HALF-TIDE LEVEL—See *mean tide level.*

HARMONIC ANALYSIS—The mathematical process by which the observed tide or tidal current at any place is separated into basic harmonic constituents.

HARMONIC CONSTANTS—The amplitudes and epochs of the harmonic constituents of the tide or tidal current at any place.

HARMONIC CONSTITUENT—One of the harmonic elements in a mathematical expression for the tide-producing force and in corresponding formulas for the tide or tidal current. Each constituent represents a periodic change or variation in the relative positions of the Earth, Moon, and Sun. A single constituent is usually written in the form $y=A\cos(at+\alpha)$, in which y is a function of time as expressed by the symbol t and is reckoned from a specific origin. The coefficient A is called the amplitude of the constituent and is a measure of its relative importance. The angle $(at+\alpha)$ changes uniformly and its value at any time is called the phase of the constituent. The speed of the constituent is the rate of change in its phase and is represented by the symbol a in the formula. The quantity α is the phase of the constituent at the initial instant from which the time is reckoned. The period of the constituent is the time required for the phase to change through 360° and is the cycle of the astronomical condition represented by the constituent.

HIGH WATER (HW)—The maximum height reached by a rising tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of prevailing meteorological conditions. Use of the synonymous term, *high tide,* is discouraged.

HIGHER HIGH WATER (HHW)—The higher of the two high waters of any tidal day.

HIGHER LOW WATER (HLW)—The higher of the two low waters of any tidal day.

HYDRAULIC CURRENT—A current in a channel caused by a difference in the surface level at the two ends. Such a current may be expected in a strait connecting two bodies of water in which the tides differ in time or range. The current in the East River, N.Y., connecting Long Island Sound and New York Harbor, is an example.

KNOT—A speed unit of 1 international nautical mile (1,852.0 meters or 6,076.11549 international feet) per hour.

LOW WATER (LW)—The minimum height reached by a falling tide. The height may be due solely to the periodic tidal forces or it may have superimposed upon it the effects of meteorological conditions. Use of the synonymous term, *low tide,* is discouraged.

LOWER HIGH WATER (LHW)—The lower of the two high waters of any tidal day.

LOWER LOW WATER (LLW)—The lower of the two low waters of any tidal day.

LUNAR DAY—The time of the rotation of the Earth with respect to the Moon, or the interval between two successive upper transits of the Moon over the meridian of a place. The mean lunar day is approximately 24.84 solar hours long, or 1.035 times as long as the mean solar day.

LUNAR INTERVAL—The difference in time between the transit of the Moon over the meridian of Greenwich and over a local meridian. The average value of this interval expressed in hours is 0.069 L, in which L is the local longitude in degrees, positive for west longitude and negative for east longitude. The lunar interval equals the difference between the local and Greenwich interval of a tide or current phase.

LUNICURRENT INTERVAL—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and a specified phase of the tidal current following the transit. Examples: *strength of flood interval* and *strength of ebb interval,* which may be abbreviated to *flood interval* and *ebb interval,* respectively. The interval is described as local or Greenwich according to whether the reference is to the Moon's transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.

LUNITIDAL INTERVAL—The interval between the Moon's transit (upper or lower) over the local or Greenwich meridian and the following high or low water. The average of all high water intervals for all phases of the Moon is known as *mean high water lunitidal interval* and is abbreviated to *high water interval* (HWI). Similarly the mean *low water lunitidal interval* is abbreviated to *low water interval* (LWI). The interval is described as local or Greenwich according to whether the reference is to the transit over the local or Greenwich meridian. When not otherwise specified, the reference is assumed to be local.

MEAN HIGH WATER (MHW)—A tidal datum. The arithmetic mean of the high water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations

with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.

MEAN HIGHER HIGH WATER (MHHW)—A tidal datum. The arithmetic mean of the higher high water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the higher high water of each pair of high waters, or the only high water of a tidal day is included in the mean.

MEAN HIGHER HIGH WATER LINE (MHHWL)—The intersection of the land with the water surface at the elevation of mean higher high water.

MEAN LOW WATER (MLW)—A tidal datum. The arithmetic mean of the low water heights observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). For stations with shorter series, simultaneous observational comparisons are made with a primary control tide station in order to derive the equivalent of a 19-year value.

MEAN LOW WATER SPRINGS (MLWS)—A tidal datum. Frequently abbreviated *spring low water.* The arithmetic mean of the low water heights occurring at the time of the spring tides observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch).

MEAN LOWER LOW WATER (MLLW)—A tidal datum. The arithmetic mean of the lower low water heights of a mixed tide observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Only the lower low water of each pair of low waters, or the only low water of a tidal day is included in the mean.

MEAN RANGE OF TIDE (Mn)—The difference in height between mean high water and mean low water.

MEAN RIVER LEVEL—A tidal datum. The average height of the surface of a tidal river at any point for all stages of the tide observed over a 19-year Metonic cycle (the National Tidal Datum Epoch), usually determined from hourly height readings. In rivers subject to occasional freshets the river level may undergo wide variations, and for practical purposes certain months of the year may be excluded in the determination of tidal datums. For charting purposes, tidal datums for rivers are usually based on observations during selected periods when the river is at or near low water stage.

MEAN SEA LEVEL (MSL)—A tidal datum. The arithmetic mean of hourly water elevations observed over a specific 19-year Metonic cycle (the National Tidal Datum Epoch). Shorter series are specified in the name; e.g., monthly mean sea level and yearly mean sea level.

MEAN TIDE LEVEL (MTL)—Also called half-tide level. A tidal datum midway between mean high water and mean low water.

MIXED TIDE—Type of tide with a large inequality in the high and/or low water heights, with two high waters and two low waters usually occurring each tidal day. In strictness, all tides are mixed but the name is usually applied to the tides intermediate to those predominantly semidiurnal and those predominantly diurnal.

NEAP TIDES OR TIDAL CURRENTS—Tides of decreased range or tidal currents of decreased speed occurring semimonthly as the result of the Moon being in quadrature. The *neap range* (Np) of the tide is the average semidiurnal range occurring at the time of neap tides and is most conveniently computed from the harmonic constants. It is smaller than the mean range where the type of tide is either semidiurnal or mixed and is of no practical significance where the type of tide is diurnal. The average height of the high waters of the neap tides is called *neap high water* or *high water neaps* (MHWN) and the average height of the corresponding low waters is called *neap low water* or *low water neaps* (MLWN).

PERIGEAN TIDES OR TIDAL CURRENTS—Tides of increased range or tidal currents of increased speed occurring monthly as the result of the Moon being in perigee or nearest the Earth. The *perigean range* (Pn) of tide is the average semidiurnal range occurring at the time of perigean tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal.

RANGE OF TIDE—The difference in height between consecutive high and low waters, the *mean range* is the difference in height between mean high water and mean low water. Where the type of tide is diurnal the mean range is the same as the diurnal range. For other ranges, see great diurnal, spring, neap, perigean, apogean, and tropic tides.

REFERENCE STATION—A tide or current station for which independent daily predictions are given in the *Tide Tables* and *Tidal Current Tables,* and from which corresponding predictions are obtained for subordinate stations by means of differences and ratios.

REVERSING CURRENT—A tidal current which flows alternately in approximately opposite directions with a slack water at each reversal of direction. Currents of this type usually occur in rivers and straits where the direction of flow is more or less restricted to certain channels. When the movement is towards the shore or up a stream, the current is said to be flooding, and when in the opposite direction it is said to be ebbing. The combined flood and ebb movement including the slack water covers, on an average, 12.42 hours for the semidiurnal current. If unaffected by a nontidal flow, the flood and ebb movements will each last about 6 hours, but when combined with such a flow, the durations of flood and ebb may be quite unequal. During the flow in each direction the speed of the current will vary from zero at the time of slack water to a maximum about midway between the slacks.

ROTARY CURRENT—A tidal current that flows continually with the direction of flow changing through all points of the compass during the tidal period. Rotary currents are usually found offshore where the direction of flow is not restricted by any barriers. The tendency for the rotation in direction has its origin in the Coriolis force and, unless modified by local conditions, the change is clockwise in the Northern Hemisphere and counterclockwise in the Southern. The speed of the current usually varies throughout the tidal cycle, passing through the two maxima in approximately opposite directions and the two minima with the direction of the current at approximately 90° from the direction at time of maximum speed.

SEMIDIURNAL—Having a period or cycle of approximately one-half of a tidal day. The predominating type of tide throughout the world is semidiurnal, with two high waters and two low waters each tidal day. The tidal current is said to be semidiurnal when there are two flood and two ebb periods each day.

SET (OF CURRENT)—The direction *towards* which the current flows.

SLACK WATER—The state of a tidal current when its speed is near zero, especially the moment when a reversing current changes direction and its speed is zero. The term is also applied to the entire period of low speed near the time of turning of the current when it is too weak to be of any practical importance in navigation. The relation of the time of slack water to the tidal phases varies in different localities. For standing tidal waves, slack water occurs near the times of high and low water, while for progressive tidal waves, slack water occurs midway between high and low water.

SPRING TIDES OR TIDAL CURRENTS—Tides of increased range or tidal currents of increased speed occurring semimonthly as the result of the Moon being new or full. The *spring range* (Sg) of tide is the average semidiurnal range occurring at the time of spring tides and is most conveniently computed from the harmonic constants. It is larger than the mean range where the type of tide is either semidiurnal or mixed, and is of no practical significance where the type of tide is diurnal. The mean of the high waters of the spring tide is called *spring high water* or *mean high water springs* (MHWS), and the average height of the corresponding low waters is called *spring low water* or *mean low water springs* (MLWS).

STAND OF TIDE—Sometimes called a platform tide. An interval at high or low water when there is no sensible change in the height of the tide. The water level is stationary at high and low water for only an instant, but the change in level near these times is so slow that it is not usually perceptible. In general, the duration of the apparent stand will depend upon the range of tide, being longer for a small range than for a large range, but where there is a tendency for a double tide the stand may last for several hours even with a large range of tide.

STANDARD TIME—A kind of time based upon the transit of the Sun over a certain specified meridian, called the *time meridian*, and adopted for use over a considerable area. With a few exceptions, standard time is based upon some meridian which differs by a multiple of 15° from the meridian of Greenwich.

STRENGTH OF CURRENT—Phase of tidal current in which the speed is a maximum; also the speed at this time. Beginning with slack before flood in the period of a reversing tidal current (or minimum before flood in a rotary current), the speed gradually increases to flood strength and then diminishes to slack before ebb (or minimum before ebb in a rotary current), after which the current turns in direction, the speed increases to ebb strength and then diminishes to slack before flood completing the cycle. If it is assumed that the speed throughout the cycle varies as the ordinates of a cosine curve, it can be shown that the average speed for an entire flood or ebb period is equal to $2/\pi$ or 0.6366 of the speed of the corresponding strength of current.

SUBORDINATE CURRENT STATION—(1) A current station from which a relatively short series of

observations is reduced by comparison with simultaneous observations from a control current station. (2) A station listed in the *Tidal Current Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station.

SUBORDINATE TIDE STATION—(1) A tide station from which a relatively short series of observations is reduced by comparison with simultaneous observations from a tide station with a relatively long series of observations. (2) A station listed in the *Tide Tables* for which predictions are to be obtained by means of differences and ratios applied to the full predictions at a reference station.

TIDAL CURRENT TABLES—Tables which give daily predictions of the times and speeds of the tidal currents. These predictions are usually supplemented by current differences and constants through which additional predictions can be obtained for numerous other places.

TIDAL DIFFERENCE—Difference in time or height of a high or low water at a subordinate station and at a reference station for which predictions are given in the *Tide Tables*. The difference, when applied according to sign to the prediction at the reference station, gives the corresponding the time or height for the subordinate station.

TIDE—The periodic rise and fall of the water resulting from gravitational interactions between the Sun, Moon, and Earth. The vertical component of the particulate motion of a tidal wave. Although the accompanying horizontal movement of the water is part of the same phenomenon, it is preferable to designate the motion as tidal current.

TIDE TABLES—Tables which give daily predictions of the times and heights of high and low waters. These predictions are usually supplemented by tidal differences and constants through which additional predictions can be obtained for numerous other places.

TIME MERIDIAN—A meridian used as a reference for time.

TROPIC CURRENTS—Tidal currents occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times the tendency of the Moon to produce a diurnal inequality in the current is at a maximum.

TROPIC RANGES—The *great tropic range* (Gc), or *tropic range*, is the difference in height between tropic higher high water and tropic lower low water. The *small tropic range* (Sc) is the difference in height between tropic lower high water and tropic higher low water. The *mean tropic range* (Mc) is the mean between the great tropic range and the small tropic range. The small tropic range and the mean tropic range are applicable only when the type of tide is semidiurnal or mixed. Tropic ranges are most conveniently computed from the harmonic constants.

TROPIC TIDES—Tides occurring semimonthly when the effect of the Moon's maximum declination is greatest. At these times there is a tendency for an increase in the diurnal range. The tidal datums pertaining to the tropic tides are designated as *tropic higher high water* (TcHHW), *tropic lower high water* (TcLHW), *tropic higher low water* (TcHLW), and *tropic lower low water* (TcLLW).

TYPE OF TIDE—A classification based on characteristic forms of a tide curve. Qualitatively, when the two high waters and two low waters of each tidal day are approximately equal in height, the tide is said to be *semidiurnal;* when there is a relatively large diurnal inequality in the high or low waters or both, it is said to be *mixed;* and when there is only one high water and one low water in each tidal day, it is said to be *dirunal.*

VANISHING TIDE—In a mixed tide with very large diurnal inequality, the lower high water (or higher low water) frequently becomes indistinct (or vanishes) at time of extreme declinations. During these periods the diurnal tide has such overriding dominance that the semidiurnal tide, although still present, cannot be readily seen on the tide curve.

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Brewer Point	6031
Brewerton Angle	6071
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Brickyard Creek	7081
Bridgeport Harbor entrance	3066
Bridgeton	4171
Brier Island	51,56
Bristol Harbor	2271
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Broad Creek	5951
Broad River	7091,7096,7111
Broad River Bridge	7111
Broad River Entrance	7036
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Broad Sound	611
Broadway Bridge, Harlem River	3496
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Brooklyn Bridge	3451
Broomes Island	5866
Broughton Island	7631
Browns Ledge	1981
Browns Mead	436
Bruffs Island	5996
Brunswick	7666
Brunswick River Bridge, Ga	7661
Brunswick River, Ga	7656
Brunswick River, N.C	6416,6421
Bucksport	326
Bulkhead Shoal Channel	4241-4246
Bull Point	2221
Bull River	7296,7301
Bumkin Island	1526,1536
Bunces Pass	8221
Burlington Island	4401
Burnt Island	171
Burntpot Island	7361
Burnside Island	7386
Bush River	6111
Butler Bluff	4551
Butler Island	6496
Butter Island	176
Buttermilk Channel	3456
Buzzard Roost Creek	7606
Buzzards Bay	2041-2151
Byrd Creek Entrance	7116

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Caesar Creek	7991
Caillou Boca	8526
Calcasieu Pass	8531-8541
Calf Island	1146
Calibogue Sound	7126-7151
Calcasieu Pass	8531-8541
Cambahee River	6971,6976
Cambridge	5921
Camden Harbor	476
Camden Marine Terminals	4361
Caminada Pass	8506
Campbell Island	6406
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Canarsie	3581
Cape Charles, off Wise Point	4541
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Cape Cod Bay	1606-1661
Cape Cod Canal	2156-2176
Cape Cod Canal, RR. bridge * (22)	2156
Cape Elizabeth	751
Cape Fear River	6336-6436
Cape Fourchu	26,31
Cape Haze	8106
Cape Henlopen	4021-4036
Cape Henry Light	4436-4461,4771,4491,6176
Cape Lookout Shoals	6331
Cape May	3966
Cape May Canal	3991,3996
Cape May Channel	4001
Cape May Harbor	3986
Cape May Point	4006-4011
Cape Neddick	761
Cape Poge Light	1826,1836,1876
Cape Porpoise	756
Cape Romain	6511
Cape Sable	6,11
Cape Spencer	76
Capers Inlet	6516
Captain Harbor	3201
Captiva Pass	8086
Carrot Island	6321
Casco Bay	611-746
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Castine Harbor	291
Castle Hill	2216
Castle Island	1341
Castle Pinckney	6566,6571
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Cat Island Pass	8516
Cats Point	8231
Catskill	3751
Causeway Island	7941
Cedar Hammock	7531
Cedar Point, Gardiners Bay	2636
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Cerberus Shoal	2526,2531,2546
Chapel Hill South Channel	3801
Chapel Point	5786
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Charles Island	3001
Charles River	1296
Charleston entrance	6521
Charleston Harbor	6531-6811
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Charleston Harbor entrance	6531-6541
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Charlotte Harbor	8091,8106
Chaseville	7821
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Chelsea River	1306,1311
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Chesapeake Bay Bridge Tunnel	4476-4541
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Chesapeake Beach	4476
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Clay Bank Pier	5376
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Clearwater Pass	8411
Clump Island	5566
Coast Guard Tower, Oregon Inlet	6196
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Cohansey River	4166
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College Point	4391
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Cook Point	5896
Cooper River	6656-6746
Coosaw Island	6996
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Cornfield Pt., Long Island Sound	2886,2891
Cornfield Point, Md	5686-5696
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Cos Cob Harbor	3206
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Courtney Campbell Parkway	8346
Cove Point	4766-4781
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Crab Point	4326
Craighill Angle	4926
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Crane Neck Point	3061,3071,3076
Craney Island	5151
Crescent River	7556
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Cross Rip Channel	1831
Crotch Island	146,391
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Cumberland Island	7721
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Doctor Point, Cape Fear River	6401
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Dodge Point	421
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Dover Point	926
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Drum Point	4761,5851
Drum Point Island	7726
Drummond Point	7811
Duck Island Bluff	3141
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Dumpling Island	5206
Dumpling Rocks	2091
Dutch Gap Canal	5301
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East Fort Point	3131
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East Rockaway Inlet	3546
Eastchester Bay	3306
Eastern Bay	5961-6006
Eastern Plain Point	2561,2566
Eastern Point, Long Island Sound	2736
Easton Point	5946
Eastport	86
Eatons Neck Point	3116-3126
Echo Bay	3256
Eddy Rock Shoal	2841
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Edgartown	1881
Edwards Point	2661
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Egg Bank	6951
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Egmont Channel	8181,8186
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Fajardo Harbor	8651
False,Egg Island Point	4146
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Fiddler Ledge	591
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Filbin Creek Reach	6686,6691
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Frazier Point	6461,6466
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Gallops Island	1361-1371,1441
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Galveston Bay	8566-8596
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Gardiners Bay	2581-2656
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George Washington Bridge	3651
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Gloucester Harbor entrance	976
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Goat Island	866,931,936
Goff Point, Gardiners Bay	2581
Goff Point, York River	5391
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Goshen Point	2766,6876,6881
Gould Island	2251,2256
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Grape Island	1551,1556
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Great Gull Island	2726
Great Pig Rocks	1001
Great Point	1771,1776
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Great Round Shoal Channel	1726
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Halfmoon Shoal	1761,1766
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Hartford Jetty	2861
Hatchett Point	2816
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Haverstraw	3686
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Hay Beach Point	2626
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Hempstead Harbor	3226,3231,3241
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Hog Creek Point	2591
Hog Island, Narragansett Bay	2281
Hog Island, Penobscot Bay	221
Hog Island, Delaware River	4331
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Hog Island Reach	6631,6646
Hog Point, James River	5251
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Hole Point Reach	1601
Holland Point	4836,5901
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Hunniwell Point	576
Huntington Bay	3131
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Hussey Sound	621-641
Hutchinson Island	6931
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Hyannis Harbor	1851
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Indian River Inlet	4416
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James River	5211-5306
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Jamestown, Narragansett Bay	2331
Janes Island	5571
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Jones Inlet	3536
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Kelly Island	4136
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Kelsey Point	2896,2916
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Kent Point	4841,4846,5966
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Kings Bay	7731
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L'Hommedieu Shoal	1911,1921
Lincoln Ledge	601
Little Barnwell Island	7121
Little Brewster Island	1111
Little Calf Island	1121,1156
Little Chebeague Island	651
Little Choptank River	5886,5891
Little Creek	4546
Little Deer Island	226
Little Diamond Island	741
Little Don Island	7291
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Little Gull Island	2551,2571,2716,2721,2771
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Little Ogeechee River Entrance	7396,7436
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Little St. Simon Island	7621
Little Sarasota Bay	8136
Little Wassaw Island	7426
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Long Branch, Fla	7826
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Long Island, Maine	646,656
Long Island Head, Mass	1216
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Long Island, south coast, N.Y	3506-3556
Long Key	7996
Long Key Viaduct	8001
Long Neck Point	3146
Long Point, Eastern Bay	5971,6006
Long Point, Pocomoke Sound	5546
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Lovell Island	1096,1171,1346,1376,1381
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Lynde Point	2821
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McGill Island	8206,8211
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Maine Coast	86-571,751-766
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Mandarin Point	7851
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Manokin River entrance	5586
Manomet Point	1646
Marblehead Channel	986
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Mark Island	156,451,461
Martha's Vineyard	1711
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Marvin Island	866
Maryland Point	5791
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Megansett Harbor	2081
Menemsha Bight	1961
Merrimack River entrance	956
Mesquite Point	8561
Miacomet Pond	1701
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Miami Harbor	7911-7986
Miami Harbor entrance * (100)	7931
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Middle Branch ent., Patapsco River	6096
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Midland Beach	3821
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Milby Point	4651,5531
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Milford Point	3006
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Mobile Point	8451,8456
Mobile River entrance	8466
Mobjack Bay	5431-5441
Monomoy Point	1681,1731,1751
Montauk Harbor entrance	2536
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Montgomery	7401
Moon Head	1476,1501
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Moosabec Reach	106,111
Morehead City	6281,6286
Moreland	6726
Morgan Island	6956,6986
Moser Channel	8006
Mosquito Point	5456,5461
Mount Hope Bay	2286,2296
Mount Hope Bridge	2276
Mount Hope Point	2291
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Mountain Point	6036
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Mulberry Point	5951
Mulford Point	2871
Mullet Key Channel entrance	8196
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Myakka River Bridge	8116
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Mystic, Mystic River, Conn	2691
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Narragansett Bay	2181-2371
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Newport	6291,6296
New Baltimore	3766
New Bedford Harbor	2106
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New Dorp Beach	3806,3816
New Ground	8061
New Hamburg	3716
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New Jersey Coast	3941-3996
New London Harbor entrance	2741
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New Point Comfort	5431,4571
New River	7156,7161
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Newark Bay	3926
Newbold Island	4406
Newburgh	3711
Newburyport	961
Newport Harbor	2231
Newport News	5136-5146,5211-5221
Newtown Creek	3431
Niantic	2786
No Name Key	8016
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Nobles Island	906,911
Nobska Point	1926,1936
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Norfolk Harbor Reach	5126
North Charleston	6681
North Edisto River entrance	6866
North Haven Peninsula	2641
North Hill Point	2701
North Newport River	7491-7506
North Point, Chesapeake Bay	4966
North Point, Brewerton Channel	6066
North River, Darien River	7596
North Santee River entrance	6501
Northbury	5426
Northport Bay	3141
Northport Bay entrance	3136
Norton Point, New York Harbor Entrance	3601
Norton Point, Vineyard Sound	1941
Norton Shoal	1821
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Nowell Creek entrance	6771
Nubble Channel	1411
Nut Island	1486,1491

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Oak Neck Point	3196
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Oatland Island	7331
Ocracoke Inlet	6216-6231,6241
Odingsell River Entrance	7406
Odiornes Point	771,776
Ogeechee River	7436,7446
Old Fernandina	7741
Old Field Point	3036,3041
Old Harbor Point	2421
Old Man Shoal, Nantucket Shoals	1696
Old Orchard Shoal Light	3811
Old Plantation Flats Light	4561
Old Point Comfort	5081-5101
Old Teakettle Creek	7561,7576,7581
Old Town Wharf	3236
Old Town Point Wharf	4936
Oldsmans Point	4301
Onemile Cut	7626
Onset Bay	2146,2151
Orchard Point	5466
Ordinary Point	6121
Ordnance Reach	6696
Oregon Inlet	6191-6201
Orient Point	2601,2876
Ossabaw Sound	7431-7451
Ossining	3681
Oxford, Tred Avon River	5941
Oyster Bay	3161-3176
Oyster River Point	2981

P

Pablo Creek	7796
Pages Rock	5366
Palominos Island	8646
Pamlico Sound	6191-6241
Pamunkey River	5416-5426
Paradise Point	2646
Parris Island	7051,7061
Parris Island Lookout Tower	7096

	No.
Parrot Creek	6981
Parson Island	5981,5986
Pasaje de San Juan	8666
Pascagoula River Highway Bridge	8481
Pass Abel	8491
Pass aux Herons	8476
Passage Key Inlet	8201
Passaic River	3936
Pass-a-Grille Channel	8371
Patapsco River	6066-6096
Patience Island	2346,2351
Patuxent River	5846-5881
Pawcatuck River	2676
Pea Island	1041
Pea Patch Island	4251
Peddocks Island	1426,1431,1461,1496,1541
Pee Dee River	6486
Peekskill	3691
Pelican Bank	6941
Penikese Island	2051,2056
Peningo Neck	3211
Penns Neck	4261,4266
Pensacola Bay	8441
Persimmon Point	5776
Petit Chou Island	7286
Petty Island	4366
Philip Head	1596
Phoenix Park	7816
Piankatank River	5436
Pickering Island	206,216
Pier 67, East River	3436
Pierces Island	886
Pigeon Island	7381
Pig Point	5196
Pig Rock	1561,1566
Pine Creek Point	3086
Pine Island	6901
Pine Key	8226
Pine Island Sound	8096
Pine Point	1591
Pinellas Point	8256-8276
Piney Point, Fla	8281,8286
Piney Point, Md	5711-5721
Pinner Point	5166
Piscataqua River	906-941
Pleasant Point	6846
Plum Gut	2731
Plum Point	4801,4821
Plum Island	2611,2796,2801
Plum Island Sound entrance, Mass	966
Plymouth Harbor	1656
Pocomoke River	5551
Pocomoke Sound	5526-5551
Pocomoke Sound Approach	5526
Point Allerton	1131-1141
Point Gammon	1846
Point Judith	2376-2396
Point Lookin	4716
Point Lookout	4706,4711,5666-5681
Point No Point, Conn	3031
Point No Point, Md	4731-4741
Point of Pines	1076,1081
Point of Shoals	5241
Point Patience	5861
Point Peter	6431
Point Pleasant Canal	3951
Point Shirley	1241
Point Ybel	8081
Pollock Rip Channel	1716
Pollock Rip Channel * (28)	1721
Pond entrance	2386
Pond Island	241,251
Pond Point, Conn	2986
Pond Point, Maine	101
Pooles Island	4976-4986,4996
Poplar Island	4826-4831,5961
Poplar Point	5931
Port Arthur Canal entrance	8556
Port Everglades	7881-7906
Port Jefferson Harbor entrance	3056
Port Royal	5521
Port Royal Plantation Tower	7026
Port Royal Sound	7021-7121
Port Tampa	8326
Port Wentworth	7271
Portland Breakwater Light	716
Portland Bridge	701
Portland Harbor entrance	696
Portsmouth Harbor	771-901
Portsmouth Harbor entrance * (10)	801
Potomac River	5666-5841
Potomac River Bridge	5781
Poughkeepsie	3721
Powells Bluff	4636
Prim Point	71
Providence	2361
Provincetown Harbor	1616
Prudence Island	2326
Puerto Rico	8621-8676
Pumpkin Island	271
Punta Gorda	8111
Punta Ostiones	8621
Purtan Island	5386

Q

Quamquisset Harbor	2071
Quantico	5796
Quantico Creek entrance	5801
Quarantine Station	8576
Quarte Bayoux Pass	8486
Quicks Hole	2016-2026
Quonochontaug Beach	2466,2471

R

Rabbit Island	6471
Raccoon Key	7421
Race Point, Cape Cod Bay	1606,1611
Race Point, Long Island Sound	2706
Radio Island	6301
Ragged Point	5891
Rainsford Island	1436,1446-1456
Ram Island, Casco Bay	616
Ram Island, Mass	991,996
Ram Island, N.Y	2596,2616
Ram Island, Penobscot Bay	531
Ram Island Reef	2681
Ramos Cay	8641
Ramshorn Creek Light	7136
Rancocas Creek	4386
Rappahannock River	5456-5521
Raritan Bay	3856-3876
Raritan Bay Reach Channel	3856
Raritan River	3881-3891
Rathall Creek entrance	6761
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Red Bay Point	7856
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Reedy Island	4201
Reedy Point	4221-4231
Reedy Point Radio Tower	6171
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Robins Point	5001
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Rockland Harbor Breakerwater	431
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Sabine Bank	8611
Sabine Pass	8546-8561
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Sagamore Beach	1636
Sagamore Bridge	2171
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St. Clements Bay entrance	5741
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St. Marys River-Cumberland Sound	7701-7751
St. Petersburg	8311
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Sandwich Harbor	1631
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Sandy Hook Approach	3556
Sandy Hook Bay	3846,3851
Sandy Hook Channel	3786,3791
Sandy Hook Point	3796
Sandy Point	4886-4891
Sandy Point, Block I	2406,2411,2446,2456
Sandy Point,Great Wicomico River	5661
Sandy Point, Nanticoke River	5626
Sandy Point, Patuxent River	5856
Sandy Point, Solomons Island	5856
Sapelo River Entrance	7536
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Sarasota Bay	8146-8171
Sasanoa River	561,571
Sassafras River	6116,6126
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Saugerties	3741
Savannah	7246,7251
Savannah Light	7186
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Savannah River entrance * (88)	7191
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Sears Island	301
Seavey Island	841,846,861
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Seguine Point	3871
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Sewells Point	5121,5131
Shackleford Banks	6246
Shackleford Point	6316
Shagwong Reef	2531
Shapleigh Island Bridge	881
Sharp Island Lt	4806-4816
Sharps	5496
Sheep Island, Hingham Bay	1546
Sheep Island, Penobscot Bay	401
Sheep Island Slue	6236
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Sheffield Island Harbor	3106
Sheffield Island Tower	3101
Shell Point	8301
Sheridan Point	5871
Shinnecock Bay	3521
Shinnecock Canal	3516
Shinnecock Inlet	3526
Shippan Point	3156
Shipyard Creek	6661
Shoal Point	3081
Shrewsbury River	3846,3851
Shutes Folly Island	6576
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Silver Point	3746
Sippican Harbor	2131
Sisters Creek entrance	7801
Six Mile Reef	2901,2906
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Skull Creek	7086,7146
Smith Cove	2751
Smith Island	4701
Smith Island Shoal	4431
Smith Point Light	4671-4696
Smoking Point	3901
Smuggedy Swamp	6926
Smyrna River	4181
Snake Island	6821
Snell Isle	8316
Snake Island	1231
Snow Point	6716
Snows Cut	6386
Snub Point	341
Sound Beach	2496
South Amelia River	7761
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South Edisto River	6896-6926
South Newport River	7511,7516
South River, Ga	7591
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South Santee River entrance	6506
Southport	6346,6351
Southwest Ledge	2481,2486
Sow and Pigs Reef	2046
Spanish Wells	7141
Spectacle Island, Boston Harbor	1241-1266
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Spesutie Island	5036
Spring Point	706
Spuyten Duyvil	3656
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Squantum Point	1331,1336
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Stafford Island	7736
Stage Harbor	1741
Stamford Harbor entrance	3181
Statue of Liberty	3636
Stingray Point	4626,4631,5446
Stoddard Hill	2756
Stodders Neck	1571
Stono Inlet	6816
Stono River	6816-6846
Stony Point	4186
Stratford Point	3046,3051
Stratford Shoal	2991
Strawberry Hill	1516
Sturdivant Island	671,676
Sugarloaf Island	6276
Sullivans Island	6561
Sunken Ledge	1466
Sunshine Skyway Bridge	8236
Sunny Point	6356
Susquehanna River	5051
Sutherland Bluff	7541
Swains Ledge	231,236
Swan Point, Chesapeake Bay	4921-4941
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Tampa Bay	8176-8366
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Tangier Sound	5561-5646
Tangier Sound Light	5556,4661
Tappahannock Bridge	5511,5516
Tarpaulin Cove	1946
Tarpley Point	5486
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Tensaw River entrance	8471
Terrebonne Bay	8516
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Thames River	2746-2761
The Cove	6601
The Graves	1101
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Thieves Ledge	1106
Thimble Shoal Channel	4481
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Thompson Island	1266,1271
THROGS NECK * (40)	3331
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Throgs Neck Bridge	3336
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Tiverton	2196,2201
Tocoi	7861
Tolchester Beach	4971
Tolchester Channel	4951-4961
Tolly Point	4876
Tombstone Point	6266
Torresdale	4381
Tottenville	3896
Towles Point	5471
Town Creek	6586,6591
Town Point Bridge	5201
Treasure Island	8391,8401
Tred Avon River	5941,5946
Tremley Point Reach	3906
Triangle Ledge	366
Troy	3781
Tuckernuck Island	1706
Tuckernuck Shoal	1781
Tue Marshes Light	5326-5346
Tufts Point	3901
Turkey Point, Eastern Bay	5976
Turkey Point	5031
Turtle Head Point	286
Turtle River	7671,7676
Turning Basin, Beaufort Inlet	6271
Turning Basin, Northeast River	6436
Twotree Island Channel	2781

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Upper Machodoc Creek entrance	5771
Upper Midnight Channel	6396

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Valiant Rock	2711
Venice Inlet	8126
Vernon River	7391,7401
Verona Island	316,321
Victor Point	5606
Vieques Passage * (130)	8620
Vieques Sound	8631
Vineyard Haven	1901
Vineyard Sound	1931-2031
Virginia Beach	6181,6186

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W Howard Frankland Bridge	8341
Waccamaw River	6491,6496
Wadmalaw River	6871-6881
Waites Landing	661
Wakema	5406
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Wallace Channel	6231
Walls Cut	7176
Wando River	6751-6776
Wappoo Creek	6786
Waquoit Bay	1916
Ward Point	3876
Wareham River	2136,2141
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Warren River entrance	2301
Washington, D.C	5836,5841
Washington Canal, N.J	3886
Wasque Point	1816
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	No.
Wassaw Island, Ossabaw Sound	7411
Wassaw Island, Wassaw Sound	7281
Wassaw Sound	7406-7426
Watch Hill Point	2491,2496
Waterview	5481
Watts Island	5536,5541
Weepecket Island	2066
Weir River	1511
Wellfleet Harbor	1621
West Chop	1906,1931
West Falmouth Harbor	2076
West Head	1461,1466,1481
West Island	2111,2116
West Marsh Island	6806
West Norfolk Bridge	5161
West Penobscot Bay	346-361
West Point, N.Y	3706
West Point, Va	5396
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Western Passage, Maine	91,96
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Weymouth Back River	1561
Whale Branch River	7006
Whaleback Reef	796
Whitehaven	5611,5616
Whitehill	4411
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Whooping Island	6891
Wickford Harbor	2336
Wicomico River, Tangier Sound	5601-5621
Wicopesset Island	2516
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Willoughby Bay	5116
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Windmill Point, Mass	1436,1531
Windmill Point, Va	5276,5451
Wine Island Pass	8521
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Winterport	331
Winter-Quarter Shoal	4426
Winthrop Head	1091
Winthrop Point	2746
Winyah Bay	6451-6496
Wolf Trap Light	4576,4581,4591-4606
Wood Island	806
Woods Hole	1986-1996
Woods Point	6711
Wooster Island	3021
Worton Point	5006,5011
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Wright River	7166
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Y

	No.
Yellow House Creek	6701
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Yeocomico River entrance	5706
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Yorktown	5351

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ASTRONOMICAL DATA, 1991

January

	d.	h.	m.
E	5	17	..
☽	7	18	35
A	12	11	..
S	13	02	..
●	15	23	50
E	20	10	..
☾	23	14	21
N	26	22	..
P	28	09	..
○	30	06	10

February

	d.	h.	m.
E	2	03	..
☽	6	13	52
A	9	04	..
S	9	09	..
●	14	17	32
E	16	16	..
☾	21	22	58
N	23	05	..
P	25	01	..
○	28	18	25

March

	d.	h.	m.
E	1	13	..
☽	8	10	32
S	8	17	..
A	9	01	..
E	16	00	..
●	16	08	10
☉	21	03	02
P	22	05	..
N	22	10	..
☾	23	06	03
E	28	22	..
○	30	07	17

April

	d.	h.	m.
S	5	01	..
A	5	21	..
☽	7	06	45
E	12	09	..
●	14	19	18
P	17	17	..
N	18	10	..
☾	21	16	19
E	25	03	..
○	28	20	58

May

	d.	h.	m.
S	2	08	..
A	3	15	..
☽	7	00	46
E	9	17	..
●	14	04	36
P	15	17	..
N	16	00	..
☾	20	19	46
E	22	08	..
○	28	11	37
S	29	14	..
A	31	03	..

June

	d.	h.	m.
☽	5	15	30
E	6	01	..
N	12	10	..
●	12	12	06
P	13	00	..
E	18	14	..
☾	19	04	19
☉	21	21	19
S	25	20	..
○	27	02	58
A	27	07	..

July

	d.	h.	m.
E	3	07	..
☽	5	02	50
N	9	20	..
P	11	10	..
●	11	19	06
E	15	22	..
☾	18	15	11
S	23	02	..
A	24	11	..
○	26	18	24
E	30	13	..

August

	d.	h.	m.
☽	3	13	25
N	6	06	..
P	8	18	..
●	10	02	28
E	12	08	..
☾	17	05	01
S	19	08	..
A	20	23	..
○	25	09	07
E	26	19	..

September

	d.	h.	m.
☽	1	18	16
N	2	13	..
P	5	19	..
●	8	11	01
E	8	18	..
S	15	16	..
☾	15	22	01
A	17	15	..
E	23	03	..
☉	23	12	48
○	23	22	40
N	29	18	..

October

	d.	h.	m.
☽	1	00	30
P	2	18	..
E	6	03	..
●	7	21	39
S	13	00	..
A	15	11	..
☾	15	17	33
E	20	11	..
○	23	11	08
N	27	00	..
P	27	16	..
☽	30	07	10

November

	d.	h.	m.
E	2	09	..
●	6	11	11
S	9	08	..
A	12	08	..
☾	14	14	02
E	16	19	..
○	21	22	56
N	23	07	..
P	24	02	..
☽	28	15	21
E	29	14	..

December

	d.	h.	m.
●	6	03	56
S	6	14	..
A	10	02	..
E	14	03	..
☾	14	09	12
N	20	18	..
○	21	10	23
☉	22	08	54
P	22	09	..
E	26	20	..
☽	28	01	55

LUNAR DATA:
- ● – new Moon
- ☾ – first quarter
- ○ – full Moon
- ☽ – last quarter
- A – Moon in apogee
- P – Moon in perigee
- N – Moon farthest north of Equator
- E – Moon on Equator
- S – Moon farthest south of Equator

SOLAR DATA:
- ♈ – March equinox
- ♋ – June solstice
- ♎ – September equinox
- ♑ – December solstice

Greenwich mean time (GMT) or universal time (UT) is the mean solar time on the Greenwich meridian reckoned in hours of 24 mean solar hours written as 00^h at midnight and 12^h at noon. To convert the above times to those of other standard time meridians, add 1 hour for each 15° of east longitude of the desired meridian and subtract 1 hour for each 15° of west longitude. This table was compiled from data supplied by the Nautical Almanac Office, United States Naval Observatory.